

**[Keerthana Purushotham](https://www.linkedin.com/in/keerthanapurushotham/overlay/about-this-profile/)**

 She/Her

SWE at Amazon Linux, AWS

**Amazon Web Services (AWS)**

**UC San Diego**

Seattle, Washington, United States

**About**

• Overall: keerthanapurushotham.substack.com/p/keerthana-purushotham-networking

1. **LinkedIn:**[*linkedin.com/in/keerthanapurushotham*](https://www.linkedin.com/in/keerthanapurushotham)
2. **Calendly:**[*calendly.com/keerthanap0808/30min*](https://calendly.com/keerthanap0808/30min)
3. **Email:** [keep.consult@proton.me](mailto:keep.consult@proton.me)
4. **Phone (*g-voice*):** +1 360-328-1182
5. **CV:**[*drive.google.com/file/d/1a\_1zHHOM0ov5DZ2BYSkryHWbnfuE8AoO/view*](https://drive.google.com/file/d/1a_1zHHOM0ov5DZ2BYSkryHWbnfuE8AoO/view)
6. **Portfolio:**[*drive.google.com/file/d/1y8GQHeCp-zdkxhn\_EFUj5T9xcLW7XZiY/view*](https://drive.google.com/file/d/1y8GQHeCp-zdkxhn_EFUj5T9xcLW7XZiY/view)
7. **GitHub:**[*github.com/keerthanap8898*](https://github.com/keerthanap8898)
8. **Rx (g-scholar):**[*scholar.google.com/citations?hl=en&user=OhmFGtIAAAAJ*](https://scholar.google.com/citations?hl=en&user=OhmFGtIAAAAJ)
9. **Medium:**[*medium.com/@keerthanapurushotham*](https://medium.com/@keerthanapurushotham)
10. **Substack:**[*substack.com/@keerthanapurushotham*](https://substack.com/@keerthanapurushotham)
11. **RxGate:**[*researchgate.net/profile/Keerthana-Purushotham*](https://www.researchgate.net/profile/Keerthana-Purushotham)
12. **Audio (g-LM):**[*drive.google.com/file/d/1Kfpd49LE9jaoDZ9VL-BmTl9DS8O1-7uR/view*](https://drive.google.com/file/d/1Kfpd49LE9jaoDZ9VL-BmTl9DS8O1-7uR/view)
13. **Scopus:**[*scopus.com/authid/detail.uri?authorId=57221594595*](https://www.scopus.com/authid/detail.uri?authorId=57221594595)
14. **ORCiD:**[*orcid.org/0009-0000-8197-7048*](https://orcid.org/0009-0000-8197-7048)
15. **IEEE:**[*ieeexplore.ieee.org/author/37088644371*](https://ieeexplore.ieee.org/author/37088644371)
16. **ACL:**[*aclanthology.org/people/keerthana-purushotham*](https://aclanthology.org/people/keerthana-purushotham)
17. **Art Portfolio:** [*instagram.com/kp\_artses*](https://www.instagram.com/kp_artses)
18. **YouTube:** [*youtube.com/channel/UCb7duYCP\_dpm4lftWeiz3ow*](https://www.youtube.com/channel/UCb7duYCP_dpm4lftWeiz3ow)

...  
All the good bits are because I received a series of outrageously hard problems with poor luck & had no choice but to grind through it. Just kept swimming till it became effortless. I've empirically been able to learn most things surprisingly fast when I need it or am curious enough. My best skill above all, is being able to absorb dense material quick under pressure & short deadlines - puzzle-like technical challenges essentially. I like formally proving everything. I thrive in high-stress cases requiring quick answers & high focus, under smug deadlines. On the flip side, I tend to put-off blurry tasks that don't fit into my priority-based mental schedules easily, a habit I’m learning to quit. Caffeine isn't sustainable business.  
  
I'm a fullstack SDE with expertise in cybersecurity, cloud, NLP & statistics. At AWS, I build predictive automation tools for CVE evaluation, design scalable cloud infra, & handle threat detection for Amzn Linux. My niche in AI, NLP & stats helps me to apply computational statistics to security, threat modeling & security Rx. I've integrated AWS CDK, Rust, Py & Js to streamline processes, & became an expert in threat modeling over 1.5k CVEs for Amzn Linux distros. I've actively contributed to system design to ensure the use of relevant info for practical security solutions. With a solid foundation in CS from UCSD, I've built skill in NLP, rec-systems, cloud-arch & have published rx. I seek impactful roles in to drive innovation at scale.  
  
→ KEYWORDS:  
 • Programming [I've been building experience here since 2011] - Rust | Py | Js | Ts | React | C | C# | C++ | Java | bash | Git | CDK | SQL | ARM & cross-tooling.  
 • Technologies [AWS experience] - AWS DynamoDB | IAM | S3 | API-Gateway | CloudWatch | CDK | CloudFormation | VScode | Kubernetes & Clustering.  
 • Logic [Academic, Research, AWS] - RESTful Applications & Networking | NLP | Fullstack ML | Mathematics & Statistics | GenAI | DevOps & Pipeline mgmt.  
 • Security [AWS experience] - Threat Analysis- CVSS, NiST, CISA, Mitre, etc | Threat Modeling | CVE Patching | FIPS standards | Linux Kernels & OS.  
  
\* My opinions are my own 🤷🏻‍♀️.

* **Top skillsTop skills**

Threat & Vulnerability Management • Natural Language Processing (NLP) • Amazon Web Services (AWS) • Software Development Life Cycle (SDLC) • Theoretical Computer Science

**Experience**

**[[](https://www.linkedin.com/company/2382910/)](https://www.linkedin.com/company/2382910/" \t "_self)**

**[Software DeveloperSoftware Developer](https://www.linkedin.com/in/keerthanapurushotham/add-edit/POSITION/?profileFormEntryPoint=PROFILE_SECTION&entityUrn=urn%3Ali%3Afsd_profilePosition%3A%28ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk%2C2033611380%29&trackingId=7%2FUlCy61TfSCWC7uvJoWkg%3D%3D&desktopBackground=PROFILE_DETAIL_SCREEN" \t "_self)**

[Amazon Web Services (AWS) · Full-timeAmazon Web Services (AWS) · Full-timeAug 2022 - Present · 3 yrs 2 mosAug 2022 to Present · 3 yrs 2 mosSeattle, Washington, United States · On-siteSeattle, Washington, United States · On-site](https://www.linkedin.com/in/keerthanapurushotham/add-edit/POSITION/?profileFormEntryPoint=PROFILE_SECTION&entityUrn=urn%3Ali%3Afsd_profilePosition%3A%28ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk%2C2033611380%29&trackingId=7%2FUlCy61TfSCWC7uvJoWkg%3D%3D&desktopBackground=PROFILE_DETAIL_SCREEN" \t "_self)

* + - ## Amazon Linux Vulnerability Management  
        
      ---> # [Security & Operations] :   
       (a) Linux CVE Management & Response − Managed Linux & kernel CVE detection with a strict 2-day SLA, handling 1,300+ CVEs, including Sev-2 incidents and remediation planning.  
       (b) Vulnerability Patching − Fixed 15+ security vulnerabilities in Amazon Linux packages, some requiring FIPS compliance.  
       (c) Knowledge Sharing & Documentation − Maintained critical runbooks and mentored new developers.  
        
      ---> # [Design & Development] :  
       (a) Cloud & API Architecture − Built privacy-enhanced RESTful features on AWS using Rust, Python, and React, leveraging multi- threading, async functions, and AWS services (DynamoDB, IAM, S3, API Gateway, CDK, CloudFormation, etc.).  
       (b) Infrastructure Migration − Migrated Rust-based API client infrastructure from one Service to another.  
       (c) Advanced Networking & Monitoring − Engineered nested CloudWatch alarms for real-time request throttling, integrating AWS DevOps automation & ticketing APIs for improved infrastructure resilience.  
        
      ---> # [Analytics & Automation]:  
       (a) Automated CVE Evaluations − Designed AI-driven CVE scoring and recommender systems, integrating AmazonQ-based chat-bots to reduce zero-day SLA targets from two days to near real-time.  
       (b) Security focused NLP & Statistics − Built an automated CVE impact analysis algorithm, applying NLP & time-series analytics to enhance security risk assessment and reduce manual workloads for customers.  
       (c) Scripting − Automated repetitive steps via custom scripts, saving approximately one week per month in manual overhead.## Amazon Linux Vulnerability Management ---> # [Security & Operations] : (a) Linux CVE Management & Response − Managed Linux & kernel CVE detection with a strict 2-day SLA, handling 1,300+ CVEs, including Sev-2 incidents and remediation planning. (b) Vulnerability Patching − Fixed 15+ security vulnerabilities in Amazon Linux packages, some requiring FIPS compliance. (c) Knowledge Sharing & Documentation − Maintained critical runbooks and mentored new developers. ---> # [Design & Development] : (a) Cloud & API Architecture − Built privacy-enhanced RESTful features on AWS using Rust, Python, and React, leveraging multi- threading, async functions, and AWS services (DynamoDB, IAM, S3, API Gateway, CDK, CloudFormation, etc.). (b) Infrastructure Migration − Migrated Rust-based API client infrastructure from one Service to another. (c) Advanced Networking & Monitoring − Engineered nested CloudWatch alarms for real-time request throttling, integrating AWS DevOps automation & ticketing APIs for improved infrastructure resilience. ---> # [Analytics & Automation]: (a) Automated CVE Evaluations − Designed AI-driven CVE scoring and recommender systems, integrating AmazonQ-based chat-bots to reduce zero-day SLA targets from two days to near real-time. (b) Security focused NLP & Statistics − Built an automated CVE impact analysis algorithm, applying NLP & time-series analytics to enhance security risk assessment and reduce manual workloads for customers. (c) Scripting − Automated repetitive steps via custom scripts, saving approximately one week per month in manual overhead.
    - **Skills:** Reliability · C++ · Knowledge Acquisition · Risk Engineering · Python (Programming Language) · Amazon Web Services (AWS) · Rust (Programming Language) · Research Computing · Software Development · Cloud Development · System Development · Statistics · Dashboards · Linux · Alternative Solutions · Vulnerability Research · Algo · System Performance · Attention to Detail · Project Management · Communication · CDK · Software Development Life Cycle (SDLC) · Analytics · Computer Security · AWS CloudFormation · Threat & Vulnerability Management · Scheduling Algorithms · Ruby · Anomaly Detection · Natural Language Processing (NLP) · Operating Systems · Serverless Framework · Coding Standards · Vulnerability Assessment**Skills:** Reliability · C++ · Knowledge Acquisition · Risk Engineering · Python (Programming Language) · Amazon Web Services (AWS) · Rust (Programming Language) · Research Computing · Software Development · Cloud Development · System Development · Statistics · Dashboards · Linux · Alternative Solutions · Vulnerability Research · Algo · System Performance · Attention to Detail · Project Management · Communication · CDK · Software Development Life Cycle (SDLC) · Analytics · Computer Security · AWS CloudFormation · Threat & Vulnerability Management · Scheduling Algorithms · Ruby · Anomaly Detection · Natural Language Processing (NLP) · Operating Systems · Serverless Framework · Coding Standards · Vulnerability Assessment

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**[UC San Diego Computer Science and Engineering Department (CSE)UC San Diego Computer Science and Engineering Department (CSE)](https://www.linkedin.com/company/19117804/" \t "_self)**

[10 mos10 mosSan Diego, California, United States · On-siteSan Diego, California, United States · On-site](https://www.linkedin.com/company/19117804/" \t "_self)

**[Graduate Teaching AssistantGraduate Teaching Assistant](https://www.linkedin.com/in/keerthanapurushotham/add-edit/POSITION/?profileFormEntryPoint=PROFILE_SECTION&entityUrn=urn%3Ali%3Afsd_profilePosition%3A%28ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk%2C2008547367%29&trackingId=6ZI0yXKGRcqD6Qdwlk30OA%3D%3D&desktopBackground=PROFILE_DETAIL_SCREEN" \t "_self)**

[Part-timePart-timeMar 2022 - Jun 2022 · 4 mosMar 2022 to Jun 2022 · 4 mos](https://www.linkedin.com/in/keerthanapurushotham/add-edit/POSITION/?profileFormEntryPoint=PROFILE_SECTION&entityUrn=urn%3Ali%3Afsd_profilePosition%3A%28ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk%2C2008547367%29&trackingId=6ZI0yXKGRcqD6Qdwlk30OA%3D%3D&desktopBackground=PROFILE_DETAIL_SCREEN" \t "_self)

* + - * + Advanced Data Structures  
          • Spring 22' - class of 300+ students with Paul Cao & Dr. Debashis SahooAdvanced Data Structures • Spring 22' - class of 300+ students with Paul Cao & Dr. Debashis Sahoo
        + **Skills:** Public Speaking · Python (Programming Language) · C · Alternative Solutions · Data Structures · ARM Assembly · Attention to Detail · Communication · Anomaly Detection · Theoretical Computer Science · Computer Architecture**Skills:** Public Speaking · Python (Programming Language) · C · Alternative Solutions · Data Structures · ARM Assembly · Attention to Detail · Communication · Anomaly Detection · Theoretical Computer Science · Computer Architecture

**[Graduate Research ApprenticeGraduate Research Apprentice](https://www.linkedin.com/in/keerthanapurushotham/add-edit/POSITION/?profileFormEntryPoint=PROFILE_SECTION&entityUrn=urn%3Ali%3Afsd_profilePosition%3A%28ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk%2C1920206570%29&trackingId=%2Bc6c7rV1RDySRVdKII1V6g%3D%3D&desktopBackground=PROFILE_DETAIL_SCREEN" \t "_self)**

[ApprenticeshipApprenticeshipJan 2022 - Jun 2022 · 6 mosJan 2022 to Jun 2022 · 6 mos](https://www.linkedin.com/in/keerthanapurushotham/add-edit/POSITION/?profileFormEntryPoint=PROFILE_SECTION&entityUrn=urn%3Ali%3Afsd_profilePosition%3A%28ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk%2C1920206570%29&trackingId=%2Bc6c7rV1RDySRVdKII1V6g%3D%3D&desktopBackground=PROFILE_DETAIL_SCREEN" \t "_self)

* + - * + Natural Language Processing and Recommender Systems Lab under the mentorship of Dr. Julian McAuley.  
          NLP & Recommender Systems Lab: Winter & Spring 22’  
          • Researched approaches to predicting stock market data with text inference and past trends.  
          • Formal understanding of financial markets, instruments, trading strategies & knowledge of associated financial tools.  
          • This includes instruments, such as equities, options, futures plus the ability to analyze market trends & identify profitable  
          trading opportunities.Natural Language Processing and Recommender Systems Lab under the mentorship of Dr. Julian McAuley. NLP & Recommender Systems Lab: Winter & Spring 22’ • Researched approaches to predicting stock market data with text inference and past trends. • Formal understanding of financial markets, instruments, trading strategies & knowledge of associated financial tools. • This includes instruments, such as equities, options, futures plus the ability to analyze market trends & identify profitable trading opportunities.
        + **Skills:** Knowledge Acquisition · Data Science · Python (Programming Language) · PyTorch · BERT · Data Analysis · Scheduling Algorithms · Artificial Intelligence (AI) · Natural Language Processing (NLP) · Machine Learning**Skills:** Knowledge Acquisition · Data Science · Python (Programming Language) · PyTorch · BERT · Data Analysis · Scheduling Algorithms · Artificial Intelligence (AI) · Natural Language Processing (NLP) · Machine Learning

**[Graduate Teaching AssistantGraduate Teaching Assistant](https://www.linkedin.com/in/keerthanapurushotham/add-edit/POSITION/?profileFormEntryPoint=PROFILE_SECTION&entityUrn=urn%3Ali%3Afsd_profilePosition%3A%28ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk%2C2008547340%29&trackingId=BF436T45T4qmQc39KpxkPQ%3D%3D&desktopBackground=PROFILE_DETAIL_SCREEN" \t "_self)**

[Part-timePart-timeJan 2022 - Mar 2022 · 3 mosJan 2022 to Mar 2022 · 3 mos](https://www.linkedin.com/in/keerthanapurushotham/add-edit/POSITION/?profileFormEntryPoint=PROFILE_SECTION&entityUrn=urn%3Ali%3Afsd_profilePosition%3A%28ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk%2C2008547340%29&trackingId=BF436T45T4qmQc39KpxkPQ%3D%3D&desktopBackground=PROFILE_DETAIL_SCREEN" \t "_self)

* + - * + Graduate Algorithm Design and Analysis  
          • Winter 22' - class of 500+ students with Dr. Russel Impagliazzo.Graduate Algorithm Design and Analysis • Winter 22' - class of 500+ students with Dr. Russel Impagliazzo.
        + **Skills:** Public Speaking · Python (Programming Language) · C · Data Structures · Communication · Algorithms · Scheduling Algorithms · Theoretical Computer Science**Skills:** Public Speaking · Python (Programming Language) · C · Data Structures · Communication · Algorithms · Scheduling Algorithms · Theoretical Computer Science

**[Graduate Teaching AssistantGraduate Teaching Assistant](https://www.linkedin.com/in/keerthanapurushotham/add-edit/POSITION/?profileFormEntryPoint=PROFILE_SECTION&entityUrn=urn%3Ali%3Afsd_profilePosition%3A%28ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk%2C2008549420%29&trackingId=M%2B1V82I%2BRe2HMds3rjaBww%3D%3D&desktopBackground=PROFILE_DETAIL_SCREEN" \t "_self)**

[Part-timePart-timeSep 2021 - Dec 2021 · 4 mosSep 2021 to Dec 2021 · 4 mos](https://www.linkedin.com/in/keerthanapurushotham/add-edit/POSITION/?profileFormEntryPoint=PROFILE_SECTION&entityUrn=urn%3Ali%3Afsd_profilePosition%3A%28ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk%2C2008549420%29&trackingId=M%2B1V82I%2BRe2HMds3rjaBww%3D%3D&desktopBackground=PROFILE_DETAIL_SCREEN" \t "_self)

* + - * + Graduate Algorithm Design and Analysis  
          • Fall 21' - class of 500+ students with Dr. Ramamohan Paturi.Graduate Algorithm Design and Analysis • Fall 21' - class of 500+ students with Dr. Ramamohan Paturi.
        + **Skills:** Public Speaking · Python (Programming Language) · C · Data Structures · Communication · Algorithms · Theoretical Computer Science**Skills:** Public Speaking · Python (Programming Language) · C · Data Structures · Communication · Algorithms · Theoretical Computer Science

**[[](https://www.linkedin.com/company/236159/)](https://www.linkedin.com/company/236159/" \t "_self)**

**[Software EngineerSoftware Engineer](https://www.linkedin.com/in/keerthanapurushotham/add-edit/POSITION/?profileFormEntryPoint=PROFILE_SECTION&entityUrn=urn%3Ali%3Afsd_profilePosition%3A%28ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk%2C1795597970%29&trackingId=nJcDktMoTxCUf1zf%2FymRAg%3D%3D&desktopBackground=PROFILE_DETAIL_SCREEN" \t "_self)**

[BP Logix, Inc. · InternshipBP Logix, Inc. · InternshipJun 2021 - Sep 2021 · 4 mosJun 2021 to Sep 2021 · 4 mosSan Diego, California, United States · RemoteSan Diego, California, United States · Remote](https://www.linkedin.com/in/keerthanapurushotham/add-edit/POSITION/?profileFormEntryPoint=PROFILE_SECTION&entityUrn=urn%3Ali%3Afsd_profilePosition%3A%28ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk%2C1795597970%29&trackingId=nJcDktMoTxCUf1zf%2FymRAg%3D%3D&desktopBackground=PROFILE_DETAIL_SCREEN" \t "_self)

* + - • Version Control Migration: Led the transition from TFVC to Git, creating a comprehensive runbook for seamless replication.  
      • Codebase Contributions: Delivered two bug fixes in C# using VS Code.  
      • DevOps & Agile Exposure: Engaged in Scrum processes, enhancing understanding of Agile development and the company's product- "Process Director".• Version Control Migration: Led the transition from TFVC to Git, creating a comprehensive runbook for seamless replication. • Codebase Contributions: Delivered two bug fixes in C# using VS Code. • DevOps & Agile Exposure: Engaged in Scrum processes, enhancing understanding of Agile development and the company's product- "Process Director".
    - **Skills:** Public Speaking · C · System Performance · DevOps · Project Management · Software Development Life Cycle (SDLC) · Version Control**Skills:** Public Speaking · C · System Performance · DevOps · Project Management · Software Development Life Cycle (SDLC) · Version Control

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**[Graduate Teaching AssistantGraduate Teaching Assistant](https://www.linkedin.com/in/keerthanapurushotham/add-edit/POSITION/?profileFormEntryPoint=PROFILE_SECTION&entityUrn=urn%3Ali%3Afsd_profilePosition%3A%28ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk%2C1841838168%29&trackingId=cU9BNOHTRBy2S3MlDBEBng%3D%3D&desktopBackground=PROFILE_DETAIL_SCREEN" \t "_self)**

[UC San Diego Computer Science and Engineering Department (CSE) · Part-timeUC San Diego Computer Science and Engineering Department (CSE) · Part-timeMar 2021 - Jun 2021 · 4 mosMar 2021 to Jun 2021 · 4 mosSan Diego, California, United States · HybridSan Diego, California, United States · Hybrid](https://www.linkedin.com/in/keerthanapurushotham/add-edit/POSITION/?profileFormEntryPoint=PROFILE_SECTION&entityUrn=urn%3Ali%3Afsd_profilePosition%3A%28ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk%2C1841838168%29&trackingId=cU9BNOHTRBy2S3MlDBEBng%3D%3D&desktopBackground=PROFILE_DETAIL_SCREEN" \t "_self)

* + - Computer Organization and Systems Programming  
      • Spring 21' - class of 500+ students with prof. Bryan Chin.Computer Organization and Systems Programming • Spring 21' - class of 500+ students with prof. Bryan Chin.
    - **Skills:** Public Speaking · Python (Programming Language) · Linux · C · ARM Assembly · Communication · Computer Architecture**Skills:** Public Speaking · Python (Programming Language) · Linux · C · ARM Assembly · Communication · Computer Architecture

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**[Software DeveloperSoftware Developer](https://www.linkedin.com/in/keerthanapurushotham/add-edit/POSITION/?profileFormEntryPoint=PROFILE_SECTION&entityUrn=urn%3Ali%3Afsd_profilePosition%3A%28ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk%2C1591133293%29&trackingId=JdvYkZDgRr6OvZ5frLaa3w%3D%3D&desktopBackground=PROFILE_DETAIL_SCREEN" \t "_self)**

[Cleo · ContractCleo · ContractJan 2020 - Dec 2020 · 1 yrJan 2020 to Dec 2020 · 1 yrBengaluru, Karnataka, India · HybridBengaluru, Karnataka, India · Hybrid](https://www.linkedin.com/in/keerthanapurushotham/add-edit/POSITION/?profileFormEntryPoint=PROFILE_SECTION&entityUrn=urn%3Ali%3Afsd_profilePosition%3A%28ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk%2C1591133293%29&trackingId=JdvYkZDgRr6OvZ5frLaa3w%3D%3D&desktopBackground=PROFILE_DETAIL_SCREEN" \t "_self)

* + - • Cloud Application testing for the Cleo Integration Cloud (CIC) application which is a cloud-based SaaS platform that allows you to integrate, analyze and administer revenue driving, heavy business processes.  
      • Performed extensive iterative testing and documentation of bugs via Postman.  
      • DevOps and Agile scrum via Version1.• Cloud Application testing for the Cleo Integration Cloud (CIC) application which is a cloud-based SaaS platform that allows you to integrate, analyze and administer revenue driving, heavy business processes. • Performed extensive iterative testing and documentation of bugs via Postman. • DevOps and Agile scrum via Version1.
    - **Skills:** Java · Statistics · DevOps · Communication · Software Development Life Cycle (SDLC) · Version Control · Internet of Things (IoT)**Skills:** Java · Statistics · DevOps · Communication · Software Development Life Cycle (SDLC) · Version Control · Internet of Things (IoT)

**[Research Assistant](https://www.linkedin.com/search/results/all/?keywords=Annapurna+Prashant+Patil%27s+Lab" \t "_self)**

**[Research AssistantResearch Assistant](https://www.linkedin.com/in/keerthanapurushotham/add-edit/POSITION/?profileFormEntryPoint=PROFILE_SECTION&entityUrn=urn%3Ali%3Afsd_profilePosition%3A%28ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk%2C2403315185%29&trackingId=c8vGe1m8RwaJYtcLZJzpwA%3D%3D&desktopBackground=PROFILE_DETAIL_SCREEN" \t "_self)**

[Annapurna Prashant Patil's Lab · ApprenticeshipAnnapurna Prashant Patil's Lab · ApprenticeshipSep 2018 - Dec 2020 · 2 yrs 4 mosSep 2018 to Dec 2020 · 2 yrs 4 mosBengaluru, Karnataka, India · On-siteBengaluru, Karnataka, India · On-site](https://www.linkedin.com/in/keerthanapurushotham/add-edit/POSITION/?profileFormEntryPoint=PROFILE_SECTION&entityUrn=urn%3Ali%3Afsd_profilePosition%3A%28ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk%2C2403315185%29&trackingId=c8vGe1m8RwaJYtcLZJzpwA%3D%3D&desktopBackground=PROFILE_DETAIL_SCREEN" \t "_self)

* + - Worked on multiple projects resulting in several peer reviewed publications in spaces including IEEE and ACL under the mentorship of Dr. Annapurna P. Patil.Worked on multiple projects resulting in several peer reviewed publications in spaces including IEEE and ACL under the mentorship of Dr. Annapurna P. Patil.
    - **Skills:** Python (Programming Language) · Research Computing · Statistics · Algo · Data Analysis · Natural Language Processing (NLP) · Technical Writing**Skills:** Python (Programming Language) · Research Computing · Statistics · Algo · Data Analysis · Natural Language Processing (NLP) · Technical Writing

**[[](https://www.linkedin.com/company/33926293/)](https://www.linkedin.com/company/33926293/" \t "_self)**

**[PRISM Research InternPRISM Research Intern](https://www.linkedin.com/in/keerthanapurushotham/add-edit/POSITION/?profileFormEntryPoint=PROFILE_SECTION&entityUrn=urn%3Ali%3Afsd_profilePosition%3A%28ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk%2C1550794621%29&trackingId=q0XK360kRg25ce3EwSzLsQ%3D%3D&desktopBackground=PROFILE_DETAIL_SCREEN" \t "_self)**

[Samsung R&D Institute India · InternshipSamsung R&D Institute India · InternshipMar 2019 - Nov 2019 · 9 mosMar 2019 to Nov 2019 · 9 mosBengaluru, Karnataka, India · HybridBengaluru, Karnataka, India · Hybrid](https://www.linkedin.com/in/keerthanapurushotham/add-edit/POSITION/?profileFormEntryPoint=PROFILE_SECTION&entityUrn=urn%3Ali%3Afsd_profilePosition%3A%28ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk%2C1550794621%29&trackingId=q0XK360kRg25ce3EwSzLsQ%3D%3D&desktopBackground=PROFILE_DETAIL_SCREEN" \t "_self)

* + - • Finished in the top 5 projects in the program amongst other universities in Bangalore.  
      • Developed web crawlers to scrape multi-turn dialogues from YouTube, Twitter and Reddit. Mainly developed a comment filtering algorithm and implemented it as a function for Web Crawlers to extract conversation data from social media websites for any search keyword using a modified bag of words model using frequency as a parameter (I eventually learned that this did the work of a SoftMax filter) in order to ground the data in current context and real-world bias.  
      • Defined two variables to enable flexible strictness in terms of n-gram overlaps and synonym matching.• Finished in the top 5 projects in the program amongst other universities in Bangalore. • Developed web crawlers to scrape multi-turn dialogues from YouTube, Twitter and Reddit. Mainly developed a comment filtering algorithm and implemented it as a function for Web Crawlers to extract conversation data from social media websites for any search keyword using a modified bag of words model using frequency as a parameter (I eventually learned that this did the work of a SoftMax filter) in order to ground the data in current context and real-world bias. • Defined two variables to enable flexible strictness in terms of n-gram overlaps and synonym matching.
    - **Skills:** Statistics · Communication · Machine Learning · Keras**Skills:** Statistics · Communication · Machine Learning · Keras

**[[](https://www.linkedin.com/company/80901/)](https://www.linkedin.com/company/80901/" \t "_self)**

**[Software DeveloperSoftware Developer](https://www.linkedin.com/in/keerthanapurushotham/add-edit/POSITION/?profileFormEntryPoint=PROFILE_SECTION&entityUrn=urn%3Ali%3Afsd_profilePosition%3A%28ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk%2C1489573471%29&trackingId=WY9xvZsASPalvQolfhiBZw%3D%3D&desktopBackground=PROFILE_DETAIL_SCREEN" \t "_self)**

[Cleo · InternshipCleo · InternshipJul 2019 - Sep 2019 · 3 mosJul 2019 to Sep 2019 · 3 mosBengaluru, Karnataka, India · On-siteBengaluru, Karnataka, India · On-site](https://www.linkedin.com/in/keerthanapurushotham/add-edit/POSITION/?profileFormEntryPoint=PROFILE_SECTION&entityUrn=urn%3Ali%3Afsd_profilePosition%3A%28ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk%2C1489573471%29&trackingId=WY9xvZsASPalvQolfhiBZw%3D%3D&desktopBackground=PROFILE_DETAIL_SCREEN" \t "_self)

* + https://github.com/keerthanap8898/Automated-EDI-mapping
    - • Learned about and how to use Cleo’s SaaS product, Clarify which is an extensive B2B data transformation tool built on an Eclipse based platform in order to automate simpler EDI transformations.  
      • Developed separate approaches using RNNs, Logistic Regression and Fuzzy logic to generate results and documented a comparison of the three.  
      • Developed a pipeline to read the different types of data-files, automatically predict the mappings and dynamically generate a ruleset file (which is otherwise generated manually by the implementation team entirely).• Learned about and how to use Cleo’s SaaS product, Clarify which is an extensive B2B data transformation tool built on an Eclipse based platform in order to automate simpler EDI transformations. • Developed separate approaches using RNNs, Logistic Regression and Fuzzy logic to generate results and documented a comparison of the three. • Developed a pipeline to read the different types of data-files, automatically predict the mappings and dynamically generate a ruleset file (which is otherwise generated manually by the implementation team entirely).
    - **Skills:** Statistics · Software Development Life Cycle (SDLC)**Skills:** Statistics · Software Development Life Cycle (SDLC)

**[[](https://www.linkedin.com/company/80901/)](https://www.linkedin.com/company/80901/" \t "_self)**

**[Software DeveloperSoftware Developer](https://www.linkedin.com/in/keerthanapurushotham/add-edit/POSITION/?profileFormEntryPoint=PROFILE_SECTION&entityUrn=urn%3Ali%3Afsd_profilePosition%3A%28ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk%2C2137553435%29&trackingId=t8YZIYpzSqe7jtJopDk7Jg%3D%3D&desktopBackground=PROFILE_DETAIL_SCREEN" \t "_self)**

[Cleo · InternshipCleo · InternshipJul 2018 - Aug 2018 · 2 mosJul 2018 to Aug 2018 · 2 mosBangalore Urban, Karnataka, India · On-siteBangalore Urban, Karnataka, India · On-site](https://www.linkedin.com/in/keerthanapurushotham/add-edit/POSITION/?profileFormEntryPoint=PROFILE_SECTION&entityUrn=urn%3Ali%3Afsd_profilePosition%3A%28ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk%2C2137553435%29&trackingId=t8YZIYpzSqe7jtJopDk7Jg%3D%3D&desktopBackground=PROFILE_DETAIL_SCREEN" \t "_self)

* + - **Skills:** Software Development Life Cycle (SDLC)

**Education**

**[[](https://www.linkedin.com/company/3382/)](https://www.linkedin.com/company/3382/" \t "_self)**

**[UC San DiegoUC San Diego](https://www.linkedin.com/in/keerthanapurushotham/add-edit/EDUCATION/?profileFormEntryPoint=PROFILE_SECTION&entityUrn=urn%3Ali%3Afsd_profileEducation%3A%28ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk%2C694240872%29&trackingId=Z%2FNEfXUWSoWUaQA2glAjHw%3D%3D&desktopBackground=PROFILE_DETAIL_SCREEN" \t "_self)**

[Master of Science - MS, Computer ScienceMaster of Science - MS, Computer ScienceDec 2020 - Jun 2022Dec 2020 - Jun 2022](https://www.linkedin.com/in/keerthanapurushotham/add-edit/EDUCATION/?profileFormEntryPoint=PROFILE_SECTION&entityUrn=urn%3Ali%3Afsd_profileEducation%3A%28ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk%2C694240872%29&trackingId=Z%2FNEfXUWSoWUaQA2glAjHw%3D%3D&desktopBackground=PROFILE_DETAIL_SCREEN" \t "_self)

* + Grade: 3.822/4.0Grade: 3.822/4.0
  + Activities and societies: Specialized in AI and Systems.   
    Algorithm Design and Analysis, Advanced Data Structures, Operating Systems, Computer Organization, Computer Security, Machine Learning Algorithms, Probabilistic Reasoning, Recommender Systems and Web Mining, Advanced Statistical NLP, Structured Prediction in NLP, Ethics - Society and Data ScienceActivities and societies: Specialized in AI and Systems. Algorithm Design and Analysis, Advanced Data Structures, Operating Systems, Computer Organization, Computer Security, Machine Learning Algorithms, Probabilistic Reasoning, Recommender Systems and Web Mining, Advanced Statistical NLP, Structured Prediction in NLP, Ethics - Society and Data Science
    - Walking on the beach and drinking unholy volumes of coffeeWalking on the beach and drinking unholy volumes of coffee
    - **Skills:** Keras · Internet of Things (IoT) · PyTorch · C++ · Data Science · Python (Programming Language) · Public Speaking · Machine Learning · Theoretical Computer Science · Linux · Algorithms · C · Artificial Intelligence (AI) · System Performance · Statistics · Data Structures**Skills:** Keras · Internet of Things (IoT) · PyTorch · C++ · Data Science · Python (Programming Language) · Public Speaking · Machine Learning · Theoretical Computer Science · Linux · Algorithms · C · Artificial Intelligence (AI) · System Performance · Statistics · Data Structures

**[[](https://www.linkedin.com/company/15137883/)](https://www.linkedin.com/company/15137883/" \t "_self)**

**[Ramaiah Institute Of TechnologyRamaiah Institute Of Technology](https://www.linkedin.com/in/keerthanapurushotham/add-edit/EDUCATION/?profileFormEntryPoint=PROFILE_SECTION&entityUrn=urn%3Ali%3Afsd_profileEducation%3A%28ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk%2C510511061%29&trackingId=PNpsvSwZQpOzMboNUKkooQ%3D%3D&desktopBackground=PROFILE_DETAIL_SCREEN" \t "_self)**

[Bachelor of Engineering - BE, Computer ScienceBachelor of Engineering - BE, Computer ScienceAug 2016 - Aug 2020Aug 2016 - Aug 2020](https://www.linkedin.com/in/keerthanapurushotham/add-edit/EDUCATION/?profileFormEntryPoint=PROFILE_SECTION&entityUrn=urn%3Ali%3Afsd_profileEducation%3A%28ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk%2C510511061%29&trackingId=PNpsvSwZQpOzMboNUKkooQ%3D%3D&desktopBackground=PROFILE_DETAIL_SCREEN" \t "_self)

* + Grade: 8.9/10.0Grade: 8.9/10.0
  + Activities and societies: 2019 VTU Women’s Football team , Ramaiah Women’s Football team , Debate society , Quiz Club , Coding club , Nature ClubActivities and societies: 2019 VTU Women’s Football team , Ramaiah Women’s Football team , Debate society , Quiz Club , Coding club , Nature Club
    - **Skills:** Keras · ARM Assembly · Internet of Things (IoT) · C++ · Data Science · Python (Programming Language) · Java · Public Speaking · Machine Learning · Theoretical Computer Science · Computer Architecture · Linux · Algorithms · C · Artificial Intelligence (AI) · Statistics · DevOps · Data Structures**Skills:** Keras · ARM Assembly · Internet of Things (IoT) · C++ · Data Science · Python (Programming Language) · Java · Public Speaking · Machine Learning · Theoretical Computer Science · Computer Architecture · Linux · Algorithms · C · Artificial Intelligence (AI) · Statistics · DevOps · Data Structures

**[Deeksha](https://www.linkedin.com/search/results/all/?keywords=Deeksha" \t "_self)**

**[DeekshaDeeksha](https://www.linkedin.com/in/keerthanapurushotham/add-edit/EDUCATION/?profileFormEntryPoint=PROFILE_SECTION&entityUrn=urn%3Ali%3Afsd_profileEducation%3A%28ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk%2C869880779%29&trackingId=tOvo3BMHQmmJM0eS22PM8w%3D%3D&desktopBackground=PROFILE_DETAIL_SCREEN" \t "_self)**

[2014 - 20162014 - 2016](https://www.linkedin.com/in/keerthanapurushotham/add-edit/EDUCATION/?profileFormEntryPoint=PROFILE_SECTION&entityUrn=urn%3Ali%3Afsd_profileEducation%3A%28ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk%2C869880779%29&trackingId=tOvo3BMHQmmJM0eS22PM8w%3D%3D&desktopBackground=PROFILE_DETAIL_SCREEN" \t "_self)

* + Grade: 90% state boardsGrade: 90% state boards
  + Activities and societies: International Math Olympiad 2015 (IMO) - Silver Medal  
     - organized by the Science Olympiad Foundation (SOF)Activities and societies: International Math Olympiad 2015 (IMO) - Silver Medal - organized by the Science Olympiad Foundation (SOF)
    - Pre-University/ second half of high schoolPre-University/ second half of high school

**[Sophia High School - Bangalore](https://www.linkedin.com/search/results/all/?keywords=Sophia+High+School+-+Bangalore" \t "_self)**

**[Sophia High School - BangaloreSophia High School - Bangalore](https://www.linkedin.com/in/keerthanapurushotham/add-edit/EDUCATION/?profileFormEntryPoint=PROFILE_SECTION&entityUrn=urn%3Ali%3Afsd_profileEducation%3A%28ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk%2C869881526%29&trackingId=OA7K3fg2T2WnpsEOthn5Ow%3D%3D&desktopBackground=PROFILE_DETAIL_SCREEN" \t "_self)**

[2001 - 20142001 - 2014](https://www.linkedin.com/in/keerthanapurushotham/add-edit/EDUCATION/?profileFormEntryPoint=PROFILE_SECTION&entityUrn=urn%3Ali%3Afsd_profileEducation%3A%28ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk%2C869881526%29&trackingId=OA7K3fg2T2WnpsEOthn5Ow%3D%3D&desktopBackground=PROFILE_DETAIL_SCREEN" \t "_self)

* + Grade: 92% ICSEGrade: 92% ICSE
  + Activities and societies: MUN, debate, theatre, school 1st rank & state top 50 state several times each year for international olympiads organized by the Science Olympiad Foundation (SOF), and athlete in field / track events & received the following medals -  
    - IMO 3xGold + 1xSilver (math),  
    - ISO 4xGold + 1xSilver (science),  
    - IEO 1xSilver + 1xBronze (english).   
    - 1xGold in Shot-put  
    - 1xSilver in Discus Throw  
    - Other Awards for Math, Art and Needle-workActivities and societies: MUN, debate, theatre, school 1st rank & state top 50 state several times each year for international olympiads organized by the Science Olympiad Foundation (SOF), and athlete in field / track events & received the following medals - - IMO 3xGold + 1xSilver (math), - ISO 4xGold + 1xSilver (science), - IEO 1xSilver + 1xBronze (english). - 1xGold in Shot-put - 1xSilver in Discus Throw - Other Awards for Math, Art and Needle-work
    - Primary, secondary & half of high-school.

**Projects**

* **Text To Video API OrchestratorText To Video API Orchestrator**

Aug 2025 - PresentAug 2025 - Present

* + https://github.com/keerthanap8898/TextToVideoAPI
    - Building generative video infra is as much about job orchestration & reliability as about the model itself. We just set up a FastAPI + Redis Streams + Rust worker backbone that supports async job submission, status tracking & high-throughput processing. Next milestone: integrating Mochi-1 across GPUs.  
        
      Research Relevance:  
      This research explores the hypothesis that correctness-critical logic can be isolated into atomic Rust modules, while orchestration, scheduling & higher-level control flow are implemented in a productivity-oriented language such as Python. The expected benefit is a reduction in concurrency & memory-safety defects without sacrificing scalability/performance.”  
        
      The Text-to-Video API project designed around the Genmo Mochi-1 model provides an ideal validation environment for this hypothesis. The system already employs a hybrid architecture:  
      • Orchestration layer: Python (FastAPI, Celery, Redis) managing job submission, retries, state.  
      • Correctness-critical execution layer: Rust GPU workers executing model inference, designed for memory safety & fault isolation.  
        
      Features  
      1. Concurrency+Correctness  
      The project explicitly addresses asynchronous job management, GPU concurrency & isolation of failed jobs without compromising session validity.  
      2. Hybrid Boundary Risks  
      The use of gRPC across Python & Rust mirrors the cross-language boundaries in the research hypothesis. Evaluating defect propagation, performance overhead & maintainability at these interfaces provides direct validation.  
      3. Representative Workload  
      The text-to-video pipeline is compute-intensive, memory-bound, latency-sensitive, making it a suitable stand-in for HPC-style correctness & concurrency challenges.  
      4. Security/ Reliability  
      The roadmap emphasizes minimizing CVEs, enforcing correctness through testing & managing nondeterminism, all of which align with the broader research framed around correctness in high-availability systems.Building generative video infra is as much about job orchestration & reliability as about the model itself. We just set up a FastAPI + Redis Streams + Rust worker backbone that supports async job submission, status tracking & high-throughput processing. Next milestone: integrating Mochi-1 across GPUs. Research Relevance: This research explores the hypothesis that correctness-critical logic can be isolated into atomic Rust modules, while orchestration, scheduling & higher-level control flow are implemented in a productivity-oriented language such as Python. The expected benefit is a reduction in concurrency & memory-safety defects without sacrificing scalability/performance.” The Text-to-Video API project designed around the Genmo Mochi-1 model provides an ideal validation environment for this hypothesis. The system already employs a hybrid architecture: • Orchestration layer: Python (FastAPI, Celery, Redis) managing job submission, retries, state. • Correctness-critical execution layer: Rust GPU workers executing model inference, designed for memory safety & fault isolation. Features 1. Concurrency+Correctness The project explicitly addresses asynchronous job management, GPU concurrency & isolation of failed jobs without compromising session validity. 2. Hybrid Boundary Risks The use of gRPC across Python & Rust mirrors the cross-language boundaries in the research hypothesis. Evaluating defect propagation, performance overhead & maintainability at these interfaces provides direct validation. 3. Representative Workload The text-to-video pipeline is compute-intensive, memory-bound, latency-sensitive, making it a suitable stand-in for HPC-style correctness & concurrency challenges. 4. Security/ Reliability The roadmap emphasizes minimizing CVEs, enforcing correctness through testing & managing nondeterminism, all of which align with the broader research framed around correctness in high-availability systems.
    - **Skills:** Low Latency · Rust (Programming Language) · Load Balancing · Distributed Systems · Redis · Distributed Algorithms · Ultra Low Latency · Network Load Balancing · Kubernetes · ingress · Celery · Artificial Intelligence (AI) · Image Processing · Computer Vision · Computer Hardware · Stress Testing**Skills:** Low Latency · Rust (Programming Language) · Load Balancing · Distributed Systems · Redis · Distributed Algorithms · Ultra Low Latency · Network Load Balancing · Kubernetes · ingress · Celery · Artificial Intelligence (AI) · Image Processing · Computer Vision · Computer Hardware · Stress Testing

**[[A document with text on it

AI-generated content may be incorrect.](https://www.linkedin.com/in/keerthanapurushotham/details/projects/1431291587/multiple-media-viewer?profileId=ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk&treasuryMediaId=1758072916106&type=DOCUMENT)](https://www.linkedin.com/in/keerthanapurushotham/details/projects/1431291587/multiple-media-viewer?profileId=ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk&treasuryMediaId=1758072916106&type=DOCUMENT" \t "_self)**

**[Text To Video Orchestrator Design documentText To Video Orchestrator Design document](https://www.linkedin.com/in/keerthanapurushotham/details/projects/1431291587/multiple-media-viewer?profileId=ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk&treasuryMediaId=1758072916106&type=DOCUMENT" \t "_self)**

[Design & Setup -  
• Problem— Modern Text-to-Vid tools lack scalability & async APIs.  
• Proposed Architecture— Kube-APIs(push/pull/get/poll):  
—-—-—-> i.e. FastAPI→Redis→Celery →Rust workers/gRPC→MinIO.  
• Env— 8×H100 GPUs, NVMe scratch, 124 CPU cores, MinIO.  
• Metrics— P95 latency ≤ 10min (MVP), ≥ 95%job success, GPU util 70–90%.  
• Milestones— MVP async endpoints, K8s deployment, observability-Prometheus, stress-test.  
• Post-MVP Features— RBAC, throttling, telemetry, auth, edge traffic.Design & Setup - • Problem— Modern Text-to-Vid tools lack scalability & async APIs. • Proposed Architecture— Kube-APIs(push/pull/get/poll): —-—-—-> i.e. FastAPI→Redis→Celery →Rust workers/gRPC→MinIO. • Env— 8×H100 GPUs, NVMe scratch, 124 CPU cores, MinIO. • Metrics— P95 latency ≤ 10min (MVP), ≥ 95%job success, GPU util 70–90%. • Milestones— MVP async endpoints, K8s deployment, observability-Prometheus, stress-test. • Post-MVP Features— RBAC, throttling, telemetry, auth, edge traffic.](https://www.linkedin.com/in/keerthanapurushotham/details/projects/1431291587/multiple-media-viewer?profileId=ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk&treasuryMediaId=1758072916106&type=DOCUMENT" \t "_self)

**[[A screenshot of a social media post

AI-generated content may be incorrect.](https://www.linkedin.com/in/keerthanapurushotham/details/projects/1431291587/multiple-media-viewer?profileId=ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk&treasuryMediaId=1758072916108&type=LINK)](https://www.linkedin.com/in/keerthanapurushotham/details/projects/1431291587/multiple-media-viewer?profileId=ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk&treasuryMediaId=1758072916108&type=LINK" \t "_self)**

**[GitHub - keerthanap8898/TextToVideoAPIGitHub - keerthanap8898/TextToVideoAPI](https://www.linkedin.com/in/keerthanapurushotham/details/projects/1431291587/multiple-media-viewer?profileId=ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk&treasuryMediaId=1758072916108&type=LINK" \t "_self)**

[Distributed GPU Workload Orchestrator (Rust + FastAPI + Redis Streams + K8s)- Designed & implemented an asynchronous, fault-tolerant service for high-throughput job processing. At-least-once delivery, idempotency, & checkpointing on Redis Streams; Rust workers for stability/latency; Kubernetes for scale (HPA, multi-replica). Frontend + APIs for end-to-end job lifecycle. Hooks for S3/MinIO artifacts & prometheus-ready telemetry.Distributed GPU Workload Orchestrator (Rust + FastAPI + Redis Streams + K8s)- Designed & implemented an asynchronous, fault-tolerant service for high-throughput job processing. At-least-once delivery, idempotency, & checkpointing on Redis Streams; Rust workers for stability/latency; Kubernetes for scale (HPA, multi-replica). Frontend + APIs for end-to-end job lifecycle. Hooks for S3/MinIO artifacts & prometheus-ready telemetry.](https://www.linkedin.com/in/keerthanapurushotham/details/projects/1431291587/multiple-media-viewer?profileId=ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk&treasuryMediaId=1758072916108&type=LINK" \t "_self)

**[[A diagram of a diagram

AI-generated content may be incorrect.](https://www.linkedin.com/in/keerthanapurushotham/details/projects/1431291587/multiple-media-viewer?profileId=ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk&treasuryMediaId=1758153712279&type=IMAGE)](https://www.linkedin.com/in/keerthanapurushotham/details/projects/1431291587/multiple-media-viewer?profileId=ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk&treasuryMediaId=1758153712279&type=IMAGE" \t "_self)**

**[NP-ness\_Text-to-video\_API.pngNP-ness\_Text-to-video\_API.png](https://www.linkedin.com/in/keerthanapurushotham/details/projects/1431291587/multiple-media-viewer?profileId=ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk&treasuryMediaId=1758153712279&type=IMAGE" \t "_self)**

[The complexity-class inclusion diagram (P ⊂ NP ⊂ NP-hard ⊂ Unclear) shows where each system layer maps:  
• Performance (latency): NP-hard scheduling →heuristic orchestration.  
• Correctness (Rust ownership): undecidable in general →tractable via type system.  
• Concurrency (async threads): NP-hard races/deadlocks →bounded by atomic workers.  
• HPC inference: NP-hard load balancing →approximated with async streaming.  
• Cross-language orchestration: NP-hard protocol correctness →simplified by layering.The complexity-class inclusion diagram (P ⊂ NP ⊂ NP-hard ⊂ Unclear) shows where each system layer maps: • Performance (latency): NP-hard scheduling →heuristic orchestration. • Correctness (Rust ownership): undecidable in general →tractable via type system. • Concurrency (async threads): NP-hard races/deadlocks →bounded by atomic workers. • HPC inference: NP-hard load balancing →approximated with async streaming. • Cross-language orchestration: NP-hard protocol correctness →simplified by layering.](https://www.linkedin.com/in/keerthanapurushotham/details/projects/1431291587/multiple-media-viewer?profileId=ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk&treasuryMediaId=1758153712279&type=IMAGE" \t "_self)

* + **[Show all 5 media](https://www.linkedin.com/in/keerthanapurushotham/details/projects/urn:li:fsd_profileProject:(ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk,1431291587)/treasury?profileUrn=urn%3Ali%3Afsd_profile%3AACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk" \t "_self)**
* **Build a neural CRF for constituency parsingBuild a neural CRF for constituency parsing**

Mar 2021 - Jun 2021Mar 2021 - Jun 2021

* + - 

Associated with UC San DiegoAssociated with UC San Diego

* + - Used the CKY algorithm for constituency parsing on the PTB dataset. Calculated the partition function in the NLL score since minimizing this score would be the goal of the learning process. This computation takes place in the inside function and implementing it with the rest of the code is the specific goal of the implementation task. All implementations were run on Google Colab using a GPU.Used the CKY algorithm for constituency parsing on the PTB dataset. Calculated the partition function in the NLL score since minimizing this score would be the goal of the learning process. This computation takes place in the inside function and implementing it with the rest of the code is the specific goal of the implementation task. All implementations were run on Google Colab using a GPU.
    - **Skills:** Python (Programming Language) · PyTorch · Data Science · DevOps · Machine Learning · Statistics · Artificial Intelligence (AI) · Keras**Skills:** Python (Programming Language) · PyTorch · Data Science · DevOps · Machine Learning · Statistics · Artificial Intelligence (AI) · Keras
* **Build a neural conditional random field (CRF) NER taggerBuild a neural conditional random field (CRF) NER tagger**

Mar 2021 - Jun 2021Mar 2021 - Jun 2021

* + - 

Associated with UC San DiegoAssociated with UC San Diego

* + - (How to build a baby BERT)  
      In this project I present and describe my implementations of BiLSTMs with Conditional Random Fields (CRFs) for Named Entity recognition (NER) and compare it to a baseline BiLSTM Tagger for the same task all performed on Google Colab with a GPU.(How to build a baby BERT) In this project I present and describe my implementations of BiLSTMs with Conditional Random Fields (CRFs) for Named Entity recognition (NER) and compare it to a baseline BiLSTM Tagger for the same task all performed on Google Colab with a GPU.
    - **Skills:** Python (Programming Language) · PyTorch · Data Science · DevOps · Machine Learning · Statistics · Artificial Intelligence (AI) · Keras**Skills:** Python (Programming Language) · PyTorch · Data Science · DevOps · Machine Learning · Statistics · Artificial Intelligence (AI) · Keras
* **System Measurement (Ubuntu)System Measurement (Ubuntu)**

Jan 2021 - Mar 2021Jan 2021 - Mar 2021

* + - 

Associated with UC San DiegoAssociated with UC San Diego

* + - Studied the machine description, performed and recorded results for various experiments designed to measure aspects related to: CPU, Scheduling, and OS Services, Memory, Network and File System.Studied the machine description, performed and recorded results for various experiments designed to measure aspects related to: CPU, Scheduling, and OS Services, Memory, Network and File System.
    - **Skills:** C · Linux · DevOps · System Performance · Internet of Things (IoT) · Computer Architecture**Skills:** C · Linux · DevOps · System Performance · Internet of Things (IoT) · Computer Architecture
* **Automation of Irrigation SystemsAutomation of Irrigation Systems**
  + - 

Associated with Ramaiah Institute Of TechnologyAssociated with Ramaiah Institute Of Technology

* + - IoT project using an Arduino, moisture lvl sensor & pump to demonstrate how consistent moisture levels can be maintained, specific to plant species to optimize their growth so as to maximize produce quantity & quality.  
        
      2nd Place in the department for the freshman Robotics & Engineering competition.IoT project using an Arduino, moisture lvl sensor & pump to demonstrate how consistent moisture levels can be maintained, specific to plant species to optimize their growth so as to maximize produce quantity & quality. 2nd Place in the department for the freshman Robotics & Engineering competition.
    - **Skills:** Organic Chemistry · Statistics · C++ · Internet of Things (IoT)

**Recommendations**

* Received:

**[Chinedu IbehChinedu Ibeh](https://www.linkedin.com/in/chinedu-ibeh-99732227" \t "_self)**

[· 1stFirst degree connection](https://www.linkedin.com/in/chinedu-ibeh-99732227" \t "_self)

[CTO, Software Engineering and Cyber Leader | CISSP | Board Member | PartnerCTO, Software Engineering and Cyber Leader | CISSP | Board Member | PartnerApril 28, 2025, Chinedu managed Keerthana directlyApril 28, 2025, Chinedu managed Keerthana directly](https://www.linkedin.com/in/chinedu-ibeh-99732227" \t "_self)

* + - Keerthana was on my engineering team. Always curious, she asked sharp questions that clarified requirements, all while keeping a positive, motivating attitude. She collborating with teammates through code reviews, and design documents. Keerthana also supported security maintenance for key Linux packages such as OpenSSL, ensuring our stack stayed stable and secure. Her blend of engagement, teamwork, and security-minded diligence makes her an asset to any development organization.

**Publications**

* **Accuracy Is Not Enough - Confusion Matrix Metrics That Actually Work in CVE Impact PredictionAccuracy Is Not Enough - Confusion Matrix Metrics That Actually Work in CVE Impact Prediction**

Medium · Sep 19, 2025Medium · Sep 19, 2025

* + **[Show publication](https://medium.com/@keerthanapurushotham/accuracy-is-not-enough-confusion-matrix-metrics-that-actually-work-in-cve-impact-prediction-d4bafd9cec1b" \t "_self)**
  + https://github.com/keerthanap8898/Accuracy-is-Not-Enough-in-Cybersecurity
    - In cybersecurity, mapping vulnerabilities (CVEs) across Linux distributions is not just classification — it’s risk control. Whether python-requests in Debian matches python3-requests in Red Hat can mean the difference between a patched system and an exploitable one.  
        
      Why does this matter?  
      False negatives (missed vulnerabilities) leave blind spots. False positives (over-flagged safe packages) burn developer time and erode trust. Accuracy hides both problems.  
        
      The solution: treat the confusion matrix as a toolbox — and climb through its metrics step by step.  
        
      [alt]  
      - keerthanapurushotham.substack.com/p/accuracy-is-not-enough-confusionIn cybersecurity, mapping vulnerabilities (CVEs) across Linux distributions is not just classification — it’s risk control. Whether python-requests in Debian matches python3-requests in Red Hat can mean the difference between a patched system and an exploitable one. Why does this matter? False negatives (missed vulnerabilities) leave blind spots. False positives (over-flagged safe packages) burn developer time and erode trust. Accuracy hides both problems. The solution: treat the confusion matrix as a toolbox — and climb through its metrics step by step. [alt] - keerthanapurushotham.substack.com/p/accuracy-is-not-enough-confusion
* **Optimized Web Crawling of Conversational Data from Social Media and Context-based FilteringOptimized Web Crawling of Conversational Data from Social Media and Context-based Filtering**

MIT Press for the Association for Computer Linguistics (ACL). · May 22, 2021MIT Press for the Association for Computer Linguistics (ACL). · May 22, 2021

* + **[Show publication](https://aclanthology.org/2020.icon-workshop.5" \t "_self)**
  + https://github.com/keerthanap8898/context-based-comment-filtering
* **An Approach to Image Denoising Using Autoencoders and Spatial Filters for Gaussian NoiseAn Approach to Image Denoising Using Autoencoders and Spatial Filters for Gaussian Noise**

IEEE Xplore · Mar 15, 2021IEEE Xplore · Mar 15, 2021

* + **[Show publication](https://ieeexplore.ieee.org/document/9377166" \t "_self)**
  + https://github.com/keerthanap8898/Detecting-pneumonias-from-chest-X-rays-using-different-CNN-architectures
    - A. P. Patil, A. Pramod, A. Harish, K. Singh and K. Purushotham, "An Approach to Image Denoising Using Autoencoders and Spatial Filters for Gaussian Noise," 2021 11th International Conference on Cloud Computing, Data Science & Engineering (Confluence), Noida, India, 2021, pp. 454-458, doi: 10.1109/Confluence51648.2021.9377166.A. P. Patil, A. Pramod, A. Harish, K. Singh and K. Purushotham, "An Approach to Image Denoising Using Autoencoders and Spatial Filters for Gaussian Noise," 2021 11th International Conference on Cloud Computing, Data Science & Engineering (Confluence), Noida, India, 2021, pp. 454-458, doi: 10.1109/Confluence51648.2021.9377166.
* **Cloud Storage Security Risks, Practices and Measures: A ReviewCloud Storage Security Risks, Practices and Measures: A Review**

IEEE Xplore · Jan 1, 2021IEEE Xplore · Jan 1, 2021

* + **[Show publication](https://ieeexplore.ieee.org/document/9298281" \t "_self)**
    - A. Syed, K. Purushotham and G. Shidaganti, "Cloud Storage Security Risks, Practices and Measures: A Review," 2020 IEEE International Conference for Innovation in Technology (INOCON), BANGLURU, 2020, pp. 1-4, doi: 10.1109/INOCON50539.2020.9298281A. Syed, K. Purushotham and G. Shidaganti, "Cloud Storage Security Risks, Practices and Measures: A Review," 2020 IEEE International Conference for Innovation in Technology (INOCON), BANGLURU, 2020, pp. 1-4, doi: 10.1109/INOCON50539.2020.9298281
* **A Survey of Adaptive Compiler Optimization HeuristicsA Survey of Adaptive Compiler Optimization Heuristics**

International Journal of Research in Engineering, Science and Management · May 1, 2019International Journal of Research in Engineering, Science and Management · May 1, 2019

* + **[Show publication](https://www.ijresm.com/volume-2-issue-5-may-2019/" \l ":~:text=A%20Survey%20of%20Compiler%20Optimization%20Techniques%0AAuthor(s)%3A%20Aamir%20Syed%2C%20Keerthana%20Purushottam%2C%20Ashiwn%20Harish%2C%20Sini%20Anna%20Alex%0APage(s)%3A%20364%2D367" \t "_self)**
    - A Survey of Adaptive Compiler Optimization Heuristics International Journal of Research in Engineering, Science and Management | Volume-2, Issue-5, May-2019 www.ijresm.com | ISSN (Online): 2581-5792  
        
      https://www.ijresm.com/Vol.2\_2019/Vol2\_Iss5\_May19/IJRESM\_V2\_I5\_165.pdfA Survey of Adaptive Compiler Optimization Heuristics International Journal of Research in Engineering, Science and Management | Volume-2, Issue-5, May-2019 www.ijresm.com | ISSN (Online): 2581-5792 https://www.ijresm.com/Vol.2\_2019/Vol2\_Iss5\_May19/IJRESM\_V2\_I5\_165.pdf

**Courses**

* **Dockers (from Microfocus)Dockers (from Microfocus)**
  + - 

Associated with Ramaiah Institute Of TechnologyAssociated with Ramaiah Institute Of Technology

* **Fundamentals of Deep Learning for Computer Vision from NVIDIA Deep Learning InstituteFundamentals of Deep Learning for Computer Vision from NVIDIA Deep Learning Institute**
  + - 

Associated with Ramaiah Institute Of TechnologyAssociated with Ramaiah Institute Of Technology

* **Internet of things using a Raspberry pi - Summer Vocational Course at Ramaiah Institute of Technology in the summer of 2017.Internet of things using a Raspberry pi - Summer Vocational Course at Ramaiah Institute of Technology in the summer of 2017.**
  + - 

Associated with Ramaiah Institute Of TechnologyAssociated with Ramaiah Institute Of Technology

* **NPTEL Online Course- Data Science for Engineers (Funded by the Ministry of HRD, Govt. of India) and managed by faculty at IIT Madras.NPTEL Online Course- Data Science for Engineers (Funded by the Ministry of HRD, Govt. of India) and managed by faculty at IIT Madras.**
  + - 

Associated with Ramaiah Institute Of Technology

**Honors & awards**

* **Best Final Year ProjectBest Final Year Project**

Issued by Ramaiah Institute of Technology- Alumni Association · Aug 2020Issued by Ramaiah Institute of Technology- Alumni Association · Aug 2020

* + - 

Associated with Ramaiah Institute Of TechnologyAssociated with Ramaiah Institute Of Technology

* + - Best Final Year Project Award received for 3rd place across the entire Computer Science Department of the University.  
        
      "An Approach to Image Denoising Using Auto-encoders and Spatial Filters for Gaussian Noise"  
        
      Conference Proceedings: 2021 11th International Conference on Cloud Computing, Data Science & Engineering (Confluence)Best Final Year Project Award received for 3rd place across the entire Computer Science Department of the University. "An Approach to Image Denoising Using Auto-encoders and Spatial Filters for Gaussian Noise" Conference Proceedings: 2021 11th International Conference on Cloud Computing, Data Science & Engineering (Confluence)

**[[A blue award with white stars

AI-generated content may be incorrect.](https://www.linkedin.com/in/keerthanapurushotham/details/honors/1739476508281/single-media-viewer?type=IMAGE&profileId=ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk)](https://www.linkedin.com/in/keerthanapurushotham/details/honors/1739476508281/single-media-viewer?type=IMAGE&profileId=ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk" \t "_self)**

**[Best Final Year Project AwardBest Final Year Project Award](https://www.linkedin.com/in/keerthanapurushotham/details/honors/1739476508281/single-media-viewer?type=IMAGE&profileId=ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk" \t "_self)**

[A. P. Patil, A. Pramod, A. Harish, K. Singh and K. Purushotham, "An Approach to Image Denoising Using Autoencoders and Spatial Filters for Gaussian Noise," 2021 11th International Conference on Cloud Computing, Data Science & Engineering (Confluence), Noida, India, 2021, pp. 454-458, doi: 10.1109/Confluence51648.2021.9377166.A. P. Patil, A. Pramod, A. Harish, K. Singh and K. Purushotham, "An Approach to Image Denoising Using Autoencoders and Spatial Filters for Gaussian Noise," 2021 11th International Conference on Cloud Computing, Data Science & Engineering (Confluence), Noida, India, 2021, pp. 454-458, doi: 10.1109/Confluence51648.2021.9377166.](https://www.linkedin.com/in/keerthanapurushotham/details/honors/1739476508281/single-media-viewer?type=IMAGE&profileId=ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk" \t "_self)

* **Samsung PRISM FinalistSamsung PRISM Finalist**

Issued by Samsun R&D Institute, India · Jan 2020Issued by Samsun R&D Institute, India · Jan 2020

* + - 

Associated with Samsung R&D Institute IndiaAssociated with Samsung R&D Institute India

* + - Samsung PRISM Finalist amongst Top 5 projects at the inter-collegiate National Level Tech convention.  
        
      "Optimized Web-Crawling of Conversational Data from Social Media and Context-Based Filtering"(https://aclanthology.org/2020.icon-workshop.5/) (Patil et al., ICON 2020)Samsung PRISM Finalist amongst Top 5 projects at the inter-collegiate National Level Tech convention. "Optimized Web-Crawling of Conversational Data from Social Media and Context-Based Filtering"(https://aclanthology.org/2020.icon-workshop.5/) (Patil et al., ICON 2020)

**[[A certificate of excellence with text and stars

AI-generated content may be incorrect.](https://www.linkedin.com/in/keerthanapurushotham/details/honors/1739476750036/single-media-viewer?type=DOCUMENT&profileId=ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk)](https://www.linkedin.com/in/keerthanapurushotham/details/honors/1739476750036/single-media-viewer?type=DOCUMENT&profileId=ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk" \t "_self)**

**[Samsung PRISM Finalist CertificateSamsung PRISM Finalist Certificate](https://www.linkedin.com/in/keerthanapurushotham/details/honors/1739476750036/single-media-viewer?type=DOCUMENT&profileId=ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk" \t "_self)**

[Annapurna P Patil, Rajarajeswari Subramanian, Gaurav Karkal, Keerthana Purushotham, Jugal Wadhwa, K Dhanush Reddy, and Meer Sawood. 2020. Optimized Web-Crawling of Conversational Data from Social Media and Context-Based Filtering. In Proceedings of the Workshop on Joint NLP Modelling for Conversational AI @ ICON 2020, pages 33–39, Patna, India. NLP Association of India (NLPAI).Annapurna P Patil, Rajarajeswari Subramanian, Gaurav Karkal, Keerthana Purushotham, Jugal Wadhwa, K Dhanush Reddy, and Meer Sawood. 2020. Optimized Web-Crawling of Conversational Data from Social Media and Context-Based Filtering. In Proceedings of the Workshop on Joint NLP Modelling for Conversational AI @ ICON 2020, pages 33–39, Patna, India. NLP Association of India (NLPAI).](https://www.linkedin.com/in/keerthanapurushotham/details/honors/1739476750036/single-media-viewer?type=DOCUMENT&profileId=ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk" \t "_self)

* **British Parliamentary debate Judge/AdjudicatorBritish Parliamentary debate Judge/Adjudicator**

Issued by M.S. Ramaiah Memorial Parliamentary Debate · Jun 2017Issued by M.S. Ramaiah Memorial Parliamentary Debate · Jun 2017

* + - 

Associated with Ramaiah Institute Of TechnologyAssociated with Ramaiah Institute Of Technology

* + - Competitive Judge and Adjudicator (Runner up) for an international British Parliamentary Debate Tournament hosted by Ramaiah Institute of Technology, call the M.S. Ramaiah Memorial Parliamentary Debate.Competitive Judge and Adjudicator (Runner up) for an international British Parliamentary Debate Tournament hosted by Ramaiah Institute of Technology, call the M.S. Ramaiah Memorial Parliamentary Debate.

**[[A certificate of appreciation

AI-generated content may be incorrect.](https://www.linkedin.com/in/keerthanapurushotham/details/honors/1744725014098/single-media-viewer?type=IMAGE&profileId=ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk)](https://www.linkedin.com/in/keerthanapurushotham/details/honors/1744725014098/single-media-viewer?type=IMAGE&profileId=ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk" \t "_self)**

**[CertificateCertificate](https://www.linkedin.com/in/keerthanapurushotham/details/honors/1744725014098/single-media-viewer?type=IMAGE&profileId=ACoAACaRfxIBrJ7JNbq6Wc5-UBhRVMEH5jcTmgk" \t "_self)**

* **Olympiad medalistOlympiad medalist**

Issued by Science Olympiad Foundation (SOF)Issued by Science Olympiad Foundation (SOF)

* + - Across all schooling between 2009-2015;  
       - Math: IMO 3xGold + 2xSilver  
       - Science: ISO 4xGold + 1xSilver  
       - English: IEO 1xSilver + 1xBronze

**Organizations**

* **CWE.org (Common Weakness Enumeration) - https://cwe.mitre.org/CWE.org (Common Weakness Enumeration) - https://cwe.mitre.org/**

Member · Aug 2025 - PresentMember · Aug 2025 - Present

* + - • Active member in the CWE community, which maintains the global standard taxonomy for software/hardware weaknesses.  
      • Engaged in discussions and reviews to improve definitions, mappings (to CVEs and CWSS scoring), and industry adoption.  
      • Contributing to the improvement of software assurance practices and vulnerability management worldwide.• Active member in the CWE community, which maintains the global standard taxonomy for software/hardware weaknesses. • Engaged in discussions and reviews to improve definitions, mappings (to CVEs and CWSS scoring), and industry adoption. • Contributing to the improvement of software assurance practices and vulnerability management worldwide.
* **IEEEIEEE**

Reviewer and Member · Feb 2025 - PresentReviewer and Member · Feb 2025 - Present

* + - Reviewer for conference papers and journal access for personal research.  
      Reviewed 6 papers in 2025.Reviewer for conference papers and journal access for personal research. Reviewed 6 papers in 2025.
* **GHC - Anita B. Org.GHC - Anita B. Org.**

Member · Sep 2021 - PresentMember · Sep 2021 - Present

* + - 

Associated with UC San DiegoAssociated with UC San Diego

* **MSRIT DebSocMSRIT DebSoc**

Core Member · Aug 2016 - Aug 2020Core Member · Aug 2016 - Aug 2020

* + - 

Associated with Ramaiah Institute Of TechnologyAssociated with Ramaiah Institute Of Technology

* + - British Parliamentary & Asian Parliamentary Debate.   
        
      - Competitive Debater and Adjudicator at Debate Tournaments like MS Ramaiah Memorial Parliamentary Debate 2017 (MSRMPD), Christ University Parliamentary Debate 2017, Manipal Institute of Technology Parliamentary Debate 2018  
      - Core Member in the Organizational committee for MSRMPD 2018, 2019 & 2020. MSRMPD is the annual parliamentary debate tournament organized by Ramaiah Institute of Technology, Bangalore.https://www.facebook.com/msrmpd/British Parliamentary & Asian Parliamentary Debate. - Competitive Debater and Adjudicator at Debate Tournaments like MS Ramaiah Memorial Parliamentary Debate 2017 (MSRMPD), Christ University Parliamentary Debate 2017, Manipal Institute of Technology Parliamentary Debate 2018 - Core Member in the Organizational committee for MSRMPD 2018, 2019 & 2020. MSRMPD is the annual parliamentary debate tournament organized by Ramaiah Institute of Technology, Bangalore.https://www.facebook.com/msrmpd/
* **MSRIT Quiz ClubMSRIT Quiz Club**

Member · Aug 2017 - Aug 2020Member · Aug 2017 - Aug 2020

* + - 

Associated with Ramaiah Institute Of TechnologyAssociated with Ramaiah Institute Of Technology

* **19a - College magazine19a - College magazine**

Design and Author · Sep 2016 - Jun 2020Design and Author · Sep 2016 - Jun 2020

* + - 

Associated with Ramaiah Institute Of TechnologyAssociated with Ramaiah Institute Of Technology

* + - Wrote a bunch of reviews for College plays and Designed the cover and official T-shirt for the annually published review of “Shoutout” the official Theatre tournament hosted by the College in 2019.

**Test scores**

* **Codesignal Certified Proctored TestCodesignal Certified Proctored Test**

Score: 534 / 600 · May 2022Score: 534 / 600 · May 2022

* + - 

Associated with UC San DiegoAssociated with UC San Diego

* + - Achieved a score of 534/600 on the CodeSignal General Coding Assessment (GCA) in a single attempt (May 2022) whilst interviewing for a Software Development role at Uber. This recalibrated score places me in the top 13% globally, equivalent to a historical raw score of ~805–810/850.  
        
      The GCA is widely used by companies like Uber, Robinhood, Dropbox, and Databricks for evaluating core coding proficiency. Scores above 750/850 (old scale) are typically considered exceptional, a 534/600 reflects strong performance in algorithmic reasoning, data structures, implementation accuracy, and timed problem-solving - making it competitive for technical roles across backend, infrastructure, and applied ML domains, etc.  
        
      https://drive.google.com/file/d/12ebCFeZnigwTLSEHWGFCiRMRD2v4ReMH/view?usp=sharingAchieved a score of 534/600 on the CodeSignal General Coding Assessment (GCA) in a single attempt (May 2022) whilst interviewing for a Software Development role at Uber. This recalibrated score places me in the top 13% globally, equivalent to a historical raw score of ~805–810/850. The GCA is widely used by companies like Uber, Robinhood, Dropbox, and Databricks for evaluating core coding proficiency. Scores above 750/850 (old scale) are typically considered exceptional, a 534/600 reflects strong performance in algorithmic reasoning, data structures, implementation accuracy, and timed problem-solving - making it competitive for technical roles across backend, infrastructure, and applied ML domains, etc. https://drive.google.com/file/d/12ebCFeZnigwTLSEHWGFCiRMRD2v4ReMH/view?usp=sharing
* **GREGRE**

Score: 323 · Oct 2019Score: 323 · Oct 2019

* + - • GRE (October 2019): 323 / 340  
       – Verbal: 159 (82nd percentile), Quant: 164 (83rd percentile), AWA: 4.0 (55th percentile)• GRE (October 2019): 323 / 340 – Verbal: 159 (82nd percentile), Quant: 164 (83rd percentile), AWA: 4.0 (55th percentile)
* **TOEFLTOEFL**

Score: 114 · Sep 2019Score: 114 · Sep 2019

* + - • TOEFL iBT (September 2019): 114 / 120  
       – Reading: 29, Listening: 30, Speaking: 25, Writing: 30