

VIVEK NARUKURTHI

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Education

Texas A&M University, College Station, TX

Texas, United States

Master of Computer Science; GPA: 4.0/4.0

May 2025

- **Coursework:** Artificial Intelligence, Software Engineering, Analysis of Algorithms

Vellore Institute of Technology

Vellore, India

Bachelors of Technology - Electronics & Communication Engineering; GPA: 3.68/4.0

Jun 2021

- **Coursework:** Data Structures & Algorithms, Computer Architecture, Probability Theory, Network Security

Technical Skills

Languages: Python, C++, Java, JavaScript, Ruby

Web Technologies & Frameworks: Django, React.js, Node.js, Ruby on Rails, HTML, CSS

Cloud & Databases: Amazon Web Services (AWS), Microsoft Azure, Google Cloud Platform (GCP), MySQL, PostgreSQL

DevOps & Tools: Docker, Kubernetes, Git, Ansible, Terraform, CI/CD (Jenkins, GitHub Actions), Cloud Custodian

Experience

Eli Lilly and Company

Bangalore, India

Cloud Software Engineer

Jul 2021 - Jul 2023

- Architected a self-reliant, server-less AWS solution, migrating our logs exporting process leveraging **DynamoDB**, **Docker**, **ECS**, **Lambda**, **SES**, resulting in a **60%** reduction in debugging time, saved **\$100K**.
- Led transition from manual configuration and resource management to adoption of Infrastructure as Code using **Terraform**, **Ansible** and **Python** lowering provisioning time by **30%**.
- Pioneered **Proof of concepts** by integrating **Microsoft Defender for Cloud** with AWS Security Hub, establishing a centralized platform for viewing Cloud Security Posture Management (**CSPM**) alerts and security scores.
- Engineered an **AWS Dashboard** for Cloud Custodian policies, bolstering **cloud security** with real-time alerts in case of policy breaches and achieving **\$250K** in cost savings by identifying and mitigating unused resources.
- Recognized with Above & Beyond **Individual and Team awards** for outstanding contributions to automation and cost-saving initiatives.

Niyo Solutions

Bangalore, India

Information Security Intern

Dec 2020 - Jun 2021

- Developed a **JavaScript**, **Python** security plugin for **Google Workspace**, enabling automatic document classification (Google Docs, Sheets, Forms) based on data sensitivity.
- Leveraged **Kubernetes** for Docker container orchestration, cutting down infrastructure costs by **25%**. Established a **Jenkins** server on Amazon EKS, streamlining deployment and cutting TAT by **80%**.

Projects

Distributed Tracing & Network Graphs | *Kubernetes, FastAPI, MySQL, HTML* [GitHub](#)

Dec 2023

- Executed a distributed tracing system leveraging a Black Box Trace Agent within **Kubernetes**, using **FastAPI** for backend development and **MySQL** for data storage, enhancing visibility in a **microservices** environment.
- Managed Kubernetes deployments, including port forwarding, exposing services, and setting up **load balancers**.
- Engineered an intuitive user interface for the Distributed Tracer using **HTML** and **CSS**, allowing users to seamlessly interact with the system by listing traces and visualizing network graphs.

Crisko - Job Tracking Application | *Django, AWS, Docker, JavaScript, OAuth* [GitHub](#)

Nov 2023

- Created a job tracking application with **Django**, leveraging **Docker** for containerization and **AWS (RDS, S3, EC2)** for seamless deployment, **GitHub Actions** for automated deployment.
- Enriched user experience by adding Google Sign Up and Login functionalities using **OAuth**. Integrated a parser plugin in **JavaScript** to help autofill job applications.

Engage Net | *React.js, WebSockets, Github Actions* [GitHub](#)

Oct 2023

- Developed a full-stack chat application in **React.js** and **Node.js**. Performed state management with **Recoil** and integrated **JWT authentication**. Utilized **WebSockets** to support real-time functionality and a **GitHub Actions (CI/CD)** workflow for deployment.

Student Knowledge System | *Ruby on Rails, Docker, Heroku* [GitHub](#)

Aug 2023

- Designed a **Ruby on Rails** web app for instructors to manage student records across courses. **Docker** and **Heroku** were used for containerization and deployment. Accomplished a quiz mini-game featuring spaced repetition algorithm for enhanced student recognition.

Achievements

Hackathons: RunnerUp 2023 Lilly GIS Hackathon, RunnerUp 2019 DevJams VIT Hackathon

Certifications: AWS Certified Developer Associate, AWS Certified Solutions Architect Associate, Azure Fundamentals (Microsoft), Proficiency in Python Scripting (Edureka), Cisco Networking Basics Specialization (Coursera)