

EDUCATION

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| Northeastern University - Boston, MA | Sept 2022 - Dec 2024 |
| Master of Science in Computer Software Engineering | GPA: 3.8 |
| Relevant Courses: Data Structures and Algorithms in Python and Java, Cloud Computing, Big Data, Parallel Computing. | |
| Visvesvaraya Technological University - Bangalore, India | Aug 2016 - June 2020 |
| Bachelor of Engineering in Computer Science | GPA: 3.0 |
| Relevant Courses: Java and Python App Programming, Database Management, Object-Oriented Concepts, Data Structures | |

WORK EXPERIENCE (~ 2.5 years)

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| Graduate Teaching Assistant – Northeastern University (Python, Java, Data Structures, OOP) | Jan 2023 - Dec 2024 |
| • Designed and graded assessments for 40+ students in Data Structures and Algorithms including Software Engineering best practices. | |
| Software Engineer Intern– PipeIQ.ai , Palo Alto, CA (Python, REST, AWS, SQL, React, TS, Node.js) | Jan 2024 - Aug 2024 |
| • Member of a startup’s founding engineering team, taking ownership of multiple microservices using Python and Node.js, leveraging RESTful APIs and AWS services like Lambda, DynamoDB, and S3, accelerating MVP launch timeline by 30%. | |
| • Developed a dynamic and interactive user interface with React, Next.js, and TypeScript, enabling cross-stack features like authentication, content delivery, and payment processing, resulting in a 40% boost in user engagement. | |
| • Engineered database schemas, built web-scraping tool for enhanced data collection and created POCs for new product features. | |
| • Built CI/CD pipeline via GitHub Actions, achieving 85% test coverage with unit and integration testing, improving deployment efficiency. | |
| • Spearheaded migration of monolithic backend to a scalable microservices architecture using Docker, Terraform, and Ansible. | |
| Systems Engineer – Infosys (client - Intel), Bangalore, India (Python, C++, SQL, CICD, Testing) | Dec 2020 - June 2022 |
| • Developed Intel driver deployment solutions in C++ on Linux, leveraging automation tools and configuration management techniques. | |
| • Built automated testing frameworks in Python for SSD firmware on Linux, enhancing system reliability and performance by 15%. | |
| • Performed root cause analysis of driver performance metrics and logs using SQL, identifying and mitigating production issues. | |
| • Re-engineered driver deployment process with Python and Shell scripting, reducing driver update time by 30% for 1 million+ users. | |
| • Optimized CI/CD pipelines with Jenkins and Git, improving code quality and reliability in driver deployment workflows. | |
| Full-Stack Developer Intern – Infosys , Mysore, India (JavaScript, MERN, NoSQL, Agile) | Feb 2020 - Mar 2020 |
| • Collaborated on backend development using Node.js, Express.js, and MongoDB for a dynamic employee skills analysis platform. | |
| • Developed interactive React components and integrated JavaScript to enable real-time data visualization on the platform. | |
| Software Developer Intern – Bosch , Bangalore, India (Python, Node.js, REST, SQL, AWS) | July 2018 - Aug 2018 |
| • Contributed to Python and Node.js backend services for shipment tracking app, integrating RESTful APIs and supporting 30+ endpoints. | |
| • Optimized SQL / NoSQL queries, improving shipment data processing time by 30% and deployed a dockerized app on AWS. | |

ACADEMIC PROJECTS

Personalized AI Job Tracker – Full-Stack App (Python, FastAPI, JavaScript, Postgres, AWS, CI/CD, Git, Docker, LLM)

- Built **AI**-powered Chrome extension with **JavaScript**, automating job tracking and improving productivity through advanced data processing.
- Developed and deployed **REST APIs** with **FastAPI**, leveraging **NLP** and **LLMs** for job data analytics, enhancing **SQL** query responses.
- Orchestrated **end-to-end** deployment with **Docker**, **CI/CD** pipelines via **GitHub Actions**, and hosted on **AWS**, ensuring high availability.

Cloud Native Web App with Scalable Architecture (AWS, Python, Flask, GitHub Actions, Terraform, Packer)

- Developed and deployed **Python**-based **REST API** on **AWS**, integrating **load balancing**, **auto-scaling** and **logging** for enhanced scalability.
- Automated **CI/CD** with **GitHub Actions**, used **Terraform** for infrastructure as code, and integrated **pytest** for reliable deployments.

Task Prioritization App with Cloud Deployment (React.js, HTML, CSS, Firebase, AWS)

- Developed a **React.js** and Tailwind **CSS**-based productivity app deployed on **AWS EC2**, enhancing task delays by **30%**.
- Built a task scheduler with Interval Scheduling and **Priority Queues**, integrated with **Firebase**, saving **20%** time for **50+** users.

AI-based Stack Overflow Full-Stack App (Python, LLM, Airflow, Docker, FastAPI, CICD, GCP)

- Led a team of **3** to develop **Dockerized Python** app, integrating **GenAI** features (**RAG**, text generation, summarization) into Stack Overflow.
- Built **data** pipeline with **Airflow**, deployed app on **GCP**, using **FastAPI** for backend and **Streamlit** for UI, ensuring efficient workflows.

TECHNICAL SKILLS

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| • Programming | - Python, Java, JavaScript, TypeScript, C++ |
| • APIs Architectures | - RESTful APIs, GraphQL, JWT, Microservices, Serverless architecture, MVC, System Design |
| • Backend Frameworks | - Flask, FastAPI, Django, Node.js, Express.js, Spring Boot |
| • Frontend Technologies | - React, Redux, Next.js, Angular.js, HTML, CSS, Bootstrap, SASS/SCSS |
| • Databases | - SQL (PostgreSQL, MySQL, SQL Server), NoSQL (MongoDB, Redis), Elasticsearch |
| • Cloud Computing | - AWS (EC2, S3, RDS, IAM, SQS, Lambda, ECS), GCP (CloudSQL, GCS, BigQuery, Pub/Sub) |
| • Devops CI/CD | - Git, GitHub, GitHub Actions, Jenkins, Docker, Terraform, packer, Kubernetes |
| • Parallel Computing | - PyTorch, Spark, CUDA, OpenMP, Multi-threading, Multi-processing, Distributed Systems |
| • Automation Testing | - Selenium, JUnit, pytest, Unit Testing |