Anusha Srinivasan

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Education

Georgia Institute of Technology — Atlanta, USA
Master of Science in Computer Science · CGPA - 3.75 — *Aug. 2024 – Present*

Ambedkar Institute of Technology — Bengaluru, India
Bachelor of Information Science and Engineering · CGPA - 9.18 — *Aug. 2016 – Oct 2020*

Experience

Oracle — Bengaluru, India
Software Engineer II — *Aug 2023 – Sept 2024*

- **Merit-based Incentive Payment System (MIPS)**: Led the design and development of a high-performance data submissions platform for the Centers for Medicare & Medicaid Services (CMS) for ECQM reporting. Delivered a scalable Ruby backend and JavaScript frontend, improving system reliability and raising analytics accuracy by 25% via optimized APIs for score plan calculations.
- **MIPS Value Pathways (MVPs) Application**: Directed frontend development to ship MVP-aligned features ahead of schedule, within a compressed 5-month timeline. Streamlined submission workflows with real-time ECQM compliance checks, boosting user efficiency and regulatory adaptability.

Cerner — Bengaluru, India
Software Engineer I — *Apr 2021 – Aug 2023*

- **Data Warehouse Tool Application**: Enhanced ReactJS-based data warehouse with advanced UI components and optimized NodeJS/Express APIs, cutting response times by 18%. Resolved fortify vulnerabilities, improving security compliance and ensuring seamless Goverenment deployments for sensitive healthcare data.
- **SAML-ADFS Authentication**: Led the redesign of legacy C# and Java authentication systems, integrating SAML-ADFS protocols to enhance security and enable single sign-on functionality. Delivered the transformation ahead of time, improving authentication reliability for 5,000+ healthcare providers.
- **Healthcare Intelligence Dashboard**: Fixed critical performance and security bugs, including SQL injection. Automated manual workflows with Python scripts, reducing effort by 85%. Mitigated 170+ high/critical CVEs in 2 months to meet federal security standards.

Youth Empowerment Foundation (NGO) — Remote, India
Founding Mobile App Developer — *Oct 2020 – Dec 2020*

- Developed and launched a full-featured Android app in Java during COVID-19 to support student learning. Integrated a secure payment gateway and Firebase backend, enabling smooth onboarding for 500+ students.

JP Morgan Chase & Co. — Bangalore, India
Software Engineering Intern — *April 2020 – Oct 2020*

- Designed and optimized data feeds to improve stock trading operations and integrated *Perspective*, a real-time data visualization tool. Collaborated on the frontend development of internal trading tools using React and Node.js.

Technical Skills

Languages: Java, Python, SQL, JavaScript, Ruby
Frameworks: React, Node.js, SpringBoot, MongoDB, Jest, GraphQL
Machine Learning: Deep Learning, NLP, Recommender Systems, LLM, Agentic Workflows
Data Analysis & Visualization: Pandas, NumPy, Matplotlib, Seaborn
Developer Tools: Git, Jenkins, Kubernetes, AWS

Projects

Mountain car | *Python, Gymnasium, numpy* *Nov 2024*

- Developed an implementation to train an agent to solve the OpenAI Gym Mountain Car environment with Q-Learning, SARSA, Policy iteration and Value iteration. It also contains pre-trained agents for the model-free algorithms.

WSN Load balancing using Ant Colony Optimization | *Python, Simulink, Matlab* *Feb 2020*

- As part of Bachelors project, Implemented a meta-heuristic algorithm to route network traffic, inspired from ant pheromone trails

Smart Farm | *Java, Arduino Uno, sensors* *April 2019*

- Developed irrigation synchronization via moisture detection of soil. Presented at the 5th National Level Techno Exhibition at Dr. AIT

Image Steganography | *Python, Tkinter* *Oct 2018*

- Created a GUI and CLI application for discrete communication using encrypted images.

Extra-Curriculars

Section Leader, Code In Place | *Stanford University* *May 2023 – 2024 – 2025*
Global Ambassador | *WomenTech Network* *Oct 2018 – Present*

Certifications

Data Science & Machine Learning: NPTEL, Indian Institute of Technology, Madras
RPA Bot Developer: Automation Anywhere