Anusha Srinivasan

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Education

Georgia Institute of Technology — Atlanta, USA
Master of Science in Computer Science · CGPA - 3.75 — *Aug. 2024 – May 2026*

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

Experience

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

- **Merit-based Incentive Payment System (MIPS)**: Led the design and development of 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.

Software Engineer I — Bengaluru, India
Cerner — *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.

Founding Mobile App Developer — Remote, India
Youth Empowerment Foundation (NGO) — *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.**

Software Engineering Intern — Bangalore, India
JP Morgan Chase & Co. — *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, CUDA
Data Analysis & Visualization: Pandas, NumPy, Matplotlib, Seaborn
Developer Tools: Git, Jenkins, Kubernetes, AWS

Projects

Hindsight Experience Replay (HER) using Prioritized Buffer| *Python* *Dec 2025*

- Developed DQN-HER-Prioritized algorithm **improving success rate from 30% to 95% on sparse-reward tasks** using custom Prioritized Replay buffer with Sum Tree (O(log n) sampling) compared to DQN-HER
- Implemented modular agent architecture with HER and 5 priority computation strategies, achieving **4x sample efficiency** through goal relabeling

PINNs to accurately deliver option prices and Greeks | *Python* *Oct 2025*

- Built Physics-Informed Neural Network for American option pricing that generalizes across market regimes without retraining and delivers Greeks **70% faster than finite-difference methods**, enabling real-time hedging for portfolio risk systems

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

- Implemented a meta-heuristic algorithm to route network traffic to conserve node energy, inspired from ant pheromone trails

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

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

Extra-Curriculars

Class Assistant Reader, Office of Disability Services | *Georgia Tech* *Jan 2026 – Present*
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

Recognitions

Bravo Associate | *Cerner* *2022*

- Received company recognition for perseverance and technical ownership in delivering a high-impact ADFS SAML authentication feature across multiple systems.

Commit & Deliver Excellence Award | *Cerner* *2021*

- Recognized for automating vulnerability tracking at scale, saving dozens of engineering hours and accelerating security resolution timelines