

Anusha Srinivasan

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EXPERIENCE

Graduate Student Researcher, SAIL Lab, Georgia Tech 🔗

10/2025 – Present
Atlanta, USA

- Developing a **reasoning-aware post-training quantization framework** for LLMs that preserves the integrity of chain-of-thought (CoT) reasoning by dynamically protecting weights most active during intermediate reasoning steps.
- Implementing **adaptive QEP propagation** to assign **layer-specific calibration strengths (a)** and improve accuracy for attention and MLP layers while reducing quantization noise.

Software Engineer II, Oracle 🔗

08/2023 – 08/2025
Bengaluru, India

- 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, Cerner 🔗

04/2021 – 08/2023
Bengaluru, India

- 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 Government 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.

Application Developer Intern, Youth Empowerment Foundation (NGO) 🔗

10/2020 – 12/2020
Remote, India

- Migrated backend to a microservices architecture (Auth, Payment, Student services) with API Gateway and Redis caching, **reducing latency by 36% and improving app scalability for 2000+ students**.

Software Engineer Intern, JP Morgan Chase & Co. 🔗

04/2020 – 10/2020
Bangalore, India

- 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.

EDUCATION

Georgia Institute of Technology, Master of Science in Computer Science | CGPA - 3.75

08/2025 – 05/2026
Atlanta, USA

Dr. Ambedkar Institute of Technology,

Bachelor of Information Science and Engineering | CGPA - 9.18

08/2016 – 10/2020
Bengaluru, India

PROJECTS

Heterogeneous Cost-Efficient FedNAS for On-Device Inference, (Research)	01/2025 – Present
- Implemented and extended a federated NAS framework to support heterogeneous client compute, training and evaluating 500M+ subnet architectures from a ResNet-based supernet on CIFAR-10 and CIFAR-100 under non-IID data partitions. - Designed server-side knowledge distillation aggregation, improving global model accuracy by 2-4% over standard FedAvg baselines and stabilizing convergence under heterogeneous client participation.	
Hindsight Experience Replay (HER) using Prioritized Buffer <i>🔗, Python</i>	12/2025
- 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 <i>🔗, Python</i>	10/2025
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	02/2020
Developed a meta-heuristic algorithm to route network traffic to conserve node energy, inspired from ant pheromone trails	

TECHNICAL SKILLS

Languages: Java, Python, SQL, JavaScript, Ruby

Frameworks: React, Node.js, SpringBoot, MongoDB, Jest, GraphQL, Kafka

Machine Learning: Deep Learning, NLP, Recommender Systems, LLM, Agentic Workflows, CUDA, RAG

Data Analysis & Visualization: Pandas, NumPy, Matplotlib, Seaborn

Developer Tools: Git, Jenkins, Kubernetes, AWS

RECOGNITIONS

Bravo Associate, Cerner	12/01/2021
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	12/01/2020
Recognized for automating vulnerability tracking at scale, saving dozens of engineering hours and accelerating security resolution timelines	

EXTRA-CURRICULARS

Class Assistant Reader, Office of Disability Services	01/2026 – Present Georgia Tech
Global Ambassador	10/2018 – Present WomenTech Network
Section Leader, Code In Place	05/2023 – 2025 Stanford University