

Tejas Vermani

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Portfolio: tejasvermani.com/portfolio

Experience

Amazon

Software Development Engineer

Software Development Engineer Intern

New York City, NY

Jul 2026 – Present

May 2025 – Aug 2025

- Built data retrieval agent for Creator Assistant using Amazon Bedrock, Java/Spring Boot, and internal reporting API
- Hardened tool use against prompt injection, shifting API execution from model to application using Return Control
- Automated response evaluation for accuracy, relevance, latency, and tool-selection decisions using smoke-test suite

VIVA Finance

Software Engineering Intern, Servicing & Growth

Atlanta, GA

Aug 2025 – Dec 2025

- Migrated and automated loan-servicing workflows for forbearances, settlements, and principal-and-interest changes
- Built a Slack-triggered workflow to calculate remittances and generate Brex/NACHA files for owner accounts
- Redesigned reimbursements workflow to apply loan overpayments, issue reimbursements, and trigger comms

CVS Health

Software Engineering Intern

New York City, NY

May 2024 – Aug 2024

- Implemented automatic client-side field-level encryption for sensitive patient data for MongoDB in Spring Boot
- Built custom Kubernetes resource connectors for dynamically provisioning and scaling application resources

NSF Smart and Connected Cities (SCC-IT) Research Project

Software Engineering Research Assistant

Atlanta, GA

Jan 2024 – May 2024

- Designed and developed the database schema in Firebase, assisting the frontend team with CRUD operations
- Developed and tested Firebase Functions to support deployment of TranSACT application in field experiments

Carrier Global

Software Engineering & Architecture Intern, Digital Foundry Team

Palm Beach Gardens, FL

May 2023 – Sept 2023

- Fine-tuned an open-source large language model for internal use, trained on documentation of the Digital Foundry
- Implemented models to detect anomalies in Indoor Air Quality data with K-means clusters and Random Cut Forest
- Assisted in establishing a machine learning operations pipeline to streamline model deployment and workflows

Education

Georgia Institute of Technology | Atlanta, GA

Master of Science, Computer Science | Specialization in Machine Learning

Jan 2025 – May 2026

Bachelor of Science, Computer Science | Highest Honors | 3.7 GPA

Aug 2021 – Dec 2024

Relevant Courses: Large Language Models, Deep Reinforcement Learning, High-Performance Computing, Computer Vision, Advanced Databases, Blockchain

Projects/Open Source

Autonomous and Connected Transportation (ACT) Driving Simulator

Aug 2022 – May 2024

- Studied and implemented state-of-the-art multi-objective optimization solution algorithms for autonomous vehicles
- Modeled multi-objective problems and developed appropriate solution methods given data
- Programmed labor rotation cost optimization model, minimizing costs

Leadership

Founder & Chief Investment Officer: GT Investments Management Club

Aug 2023 – Aug 2025

- Founded and led a student-managed fund with \$100k+ in privately raised capital
- Authored fund's investment strategy, managed sector leads, and developed quantitative investment tools

Skills

Programming Languages: Python, Java, C++, C, TypeScript, JavaScript, SQL

ML/AI: PyTorch, Hugging Face Transformers, scikit-learn, Amazon Bedrock

Systems & Data: AWS, Docker, Kubernetes, Kafka, Spring Boot, PostgreSQL, MongoDB, OpenMPI, Git