

# Tejas Vermani

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Portfolio: [tvermani13.github.io/professional-portfolio](https://tvermani13.github.io/professional-portfolio)

## Education

### Master of Science - Georgia Institute of Technology | Atlanta, GA

August 2024 – December 2025

- Candidate for Master of Science, Machine Learning

### Bachelor of Science - Georgia Institute of Technology | Atlanta, GA

August 2021 – December 2024

- Candidate for Bachelor of Science, Computer Science
- Concentrations in Intelligence, Modeling and Simulation
- Faculty Honors – Fall 2022, 2023; Dean's List – Fall 2021, Spring 2022, 2023, 2024

GPA: 3.8

**Relevant Courses:** Deep Learning, Machine Learning, High Performance Computing, Computer Systems & Networking, Robotics and Perception, Data Structures & Algorithms, Probability & Statistics, Databases, Computer Vision

## Work Experience

### CVS Health

May – August 2024

Software Engineering Intern

New York City, NY

- 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
- Developed connectors from MongoDB and Snowflake to Kafka, enabling seamless data integration and streaming

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

January – May 2024

Software Engineering Research Assistant

Atlanta, GA

- 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

May– September 2023

Software Engineering & Architecture Intern @ Digital Foundry Team

Palm Beach Gardens, FL

- 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
- Leveraged AWS Glue to architect a data governance policy for Carrier.io pipeline
- Assisted in establishing a machine learning operations pipeline to streamline model deployment and workflows

## Projects

### 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

### WebDev @ Georgia Tech: Event Ticketing and Management

Jan – May 2024

- Architected PostgreSQL database schema and implemented Prisma migrations for full-stack web application
- Assisted with building backend APIs with Express.js and connecting them to frontend within the Next.js framework

### Campus Discovery @ Georgia Tech

Aug - Dec 2022

- Built a web application that allows Georgia Tech affiliates to view, create, and register events on campus
- Used React JS to implement RESTful web architecture, and Google Maps API to create interactive map of events
- Used Firebase as backend to store user and event data and send and receive said data to and from front-end

## Leadership

### Chief Investment Officer: GT Investments Management Club

Aug 2023 - Current

- Authored fund's investment strategy, detailing asset allocation, rebalancing policy, and risk management
- Led tech team, with the goal of implementing quantitative methods to inform fundamental strategies
- Raised and managed \$100k+ in privately raised capital, outperforming benchmarks, and oversaw sector heads

## Skills

**Programming Languages:** Java, Python, C, C++, JavaScript, TypeScript, Swift, MySQL, PostgreSQL

**Frameworks:** Spring Boot, Node.js, Django, Next.js, React, Express.js, TailwindCSS

**Technologies:** AWS, Docker, Azure, Git, PostgreSQL, Firebase, MongoDB, MPI, Kafka, Kubernetes, Vercel, Jenkins