

SAMI RAHMAN

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EXPERIENCE

TransCore

Aug 2024 – Dec 2025

Software Engineer – Intelligent Transportation Systems

Atlanta, GA

- Context: TransCore builds large-scale transportation software used globally to manage traffic signal timing, real-time data ingestion, and operational analytics under strict latency and correctness constraints.
- Software Engineering:
 - Built and maintained backend Java and .NET services supporting traffic signal timing, validation, and data processing for production transportation systems
 - Designed and implemented low-latency data ingestion pipelines to retrieve and process compressed, high-resolution data from embedded traffic controllers via SFTP using .NET Framework C#
 - Developed and optimized IIS web proxy services using WebSockets, reducing average client-service latency from 270ms to 142ms across a production web farm
 - Implemented database-backed validation logic to verify timing plans against controller constraints, detecting configuration errors before deployment
 - Diagnosed and resolved performance, correctness, and edge-case issues in distributed systems involving concurrency, I/O, and real-time constraints
- Technical Leadership:
 - Led root-cause analysis of production issues by tracing failures across asynchronous service calls, database state, and timing-dependent system behavior
 - Collaborated with firmware and product teams to debug customer-impacting issues and deliver production fixes

Scale AI

Dec 2023 – Aug 2024

Advanced Programmer – AI Training (Contract)

Atlanta, GA

- Analyzed AI prompts and wrote functional and efficient code to assess AI Models in Python and Java
- Evaluated the quality of and created robust test cases for AI-generated code based on safety guidelines
- Outlined and reviewed Reinforcement Learning from Human Feedback (RLHF) tasks with a team of 6+

VMware Inc.

Feb 2022 – April 2023

Software Development Engineer I – End User Computing

Atlanta, GA

- Built tooling to automatically test app functionality using Appium/Selenium in C# leading to the reduction of the number of issues reported by customers and reducing time for deployments
- Utilized Ansible to scale the automation testing framework to multiple operating systems for 95% test coverage
- Increased code testing coverage by expanding unit and integration tests to reduce development and testing cycles
- Documented system architecture and onboarding materials for 4+ engineers and mentored an intern

VMware Inc.

May 2021 – Aug 2021

Software Development Engineer Intern – VMware Engineering Services

Atlanta, GA

VMware Inc.

May 2020 – Aug 2020

Software Development Engineer Intern – End User Computing

Atlanta, GA

EDUCATION

Georgia Institute of Technology

Atlanta, GA

Master of Science in **Computer Science** (part-time)

Aug 2024 – Present

Concentration: Machine Learning

GPA: 4.00

Relevant Courses: ML for Trading, Natural Language Processing, Deep Learning, Reinforcement Learning, Computer Networks, Operating Systems,

Georgia Institute of Technology

Atlanta, GA

Bachelor of Science in **Computer Science (Honors)**

Concentrations: Artificial Intelligence and Human-Computer Interaction

Relevant Courses: Data Structures & Algorithms, Intro to AI, Machine Learning, Computer Vision

SKILLS

- **Programming:** Python (proficient), Java (proficient), C# (intermediate), SQL (intermediate)
- **Frameworks / Libraries:** PyTorch, NumPy, Pandas, .NET
- **Tools / Protocols:** Git, Docker, Jira, Confluence, IIS, WebSockets, REST APIs