Sohan Malladi

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EDUCATION

Georgia Institute of Technology
Atlanta, GA

Bachelor's and Master's of Science in Computer Science - GPA: 3.93   *Graduation Date: May 2026*

- Threads of Intelligence and Info Internetworks
- Relevant Coursework: Data Structures and Algorithms, Object Oriented Programming, Artificial Intelligence, Analysis of Algorithms, Database Systems, Linear Algebra, Computer Organization, Operating Systems

EXPERIENCE

Palantir
May 2025 – Aug. 2025

Incoming Software Engineer Intern   *New York City, NY*

HubSpot
Sept. 2024 – Dec. 2024

Software Engineer Intern   *Remote*

- Built a full-stack automated email notification system, replacing Workato and saving HubSpot $20,000+ annually.
- Implemented a Java backend to query employee data from Snowflake SQL and generate email notifications.
- Developed a CI/CD pipeline with Jenkins, incorporating JUnit for testing and deploying the service on AWS EC2.
- Logged notifications in PostgreSQL for tracking, preventing duplicates, and ensuring auditability.
- Added self-service scheduling, allowing employees to create recurring notifications through TypeScript frontend

Amazon Web Services
May 2024 – Aug. 2024

Software Development Engineer Intern   *Seattle, WA*

- Developed a full-stack feature for Amazon Q, a generative AI RAG service, enhancing file interactivity with functionalities like summarizing PDFs and graphing Excel columns
- Implemented a responsive Chat Web Application using React and TypeScript, ensuring a seamless user experience
- Engineered backend with AWS CDK using AWS API Gateway and Lambda in Python/Java for API calls and AWS DynamoDB and S3 for efficient data management
- Integrated an Intent Classification Model using AWS Bedrock and Anthropic Claude's LLM, reducing model output time by 40% and bypassing Claude's token limit

State Farm
May 2023 – Aug. 2023

Software Engineer Intern   *Atlanta, GA*

- Crafted SwiftUI interfaces for Steer Clear®, enhancing app usability and promoting safe driving
- Boosted customer discovery efficiency by 20% by redesigning an internal application UIKit and SwiftUI
- Partnered with backend engineers to optimize data storage with Postgres
- Revitalized Objective-C legacy app architecture with Swift, improving performance for 500k+ App Store users

Microsoft
Jul. 2022 – Aug. 2022

Software Engineering Mentee   *Tampa, FL*

PROJECTS

BinVision | *Python, React.js, Express.js, Node.js, Flask, Firebase, Deep Learning*
Oct. 2023 - Apr. 2024

- Leveraged a ResNet34 classification model with Flask to create a React.js app with a Node.js backend for instant trash classification using camera input, reducing mis-sorted trash by over 30%
- Implemented a Firebase database to enable live recycling statistics, allowing actionable insights.
- Created a Raspberry Pi backed module with circuits, proximity sensor and camera input
- Won sustainability track at HACKGT, one of 5

Automated Hybrid Algorithm Framework | *C++, Python, CUDA, Cloud Computing*
Aug. 2023 – Dec. 2024

- Utilized Multi-Objective Genetic Programming to automate algorithm creation with Python and C++
- Leveraged GPU/CUDA Programming to enable efficient execution of algorithms
- Generated a set of Pareto optimal algorithms to see results, using cloud computing to optimize complex scenarios

Pipelined Processor | *VHDL, ROM, ALU, Data Forwarding, Branch Prediction*
April 2024

- Designed a 5-stage pipelined processor in simulated environment, improving CPI by 4x over non-pipelined design.
- Integrated software-based data forwarding, branch prediction, and priority encoding to reduce stalls.
- Centralized control logic using a single ROM for managing control signals in the ID/RR stage.

TECHNICAL SKILLS

Languages: Java, Python, C, C++, Swift, JavaScript, HTML/CSS, Dart, SQL, Kotlin, Golang
Frameworks: React, Node.js, SwiftUI, JUnit, Flutter, Firebase, Unity, mySQL, Angular, Kubernetes
Developer Tools: Git, GitLab, Docker, Jupyter Notebooks, VS Code, PyCharm, IntelliJ, Eclipse, Azure, AWS
Libraries: pandas, NumPy, Google Maps API, scikit-learn, IOS, Android, Mobile