

Rohan S. Makim

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Education

Georgia Institute of Technology | Atlanta, GA

June 2021 – July 2025

Bachelor of Science in Computer Engineering

Skills

Programming: Java, Python, JavaScript, Assembly, C, VHDL, Verilog, Git, Virtuosio, AWS, DynamoDB, Docker, SQL

Software: Visual Studio Code, Arduino IDE, Microsoft Suite

Experience

General Motors | Lansing, Michigan

May – August 2024

Controls Engineer Intern

Line Supervisor Upgrade Project

- Revamped line supervisor application for multiple presses to cut die change times, reduce chance of crashing, etc.

S4000 CPU Card Configure Project

- Installed OS and added correct programming for different slices within the press. Created backups to reduce downtime.

Trenton Systems | Atlanta, Georgia

June – August 2023

Computer Engineering Intern

Trenton Systems builds custom rugged servers and other hardware for military and non-military use.

Led the Fan Automation Project

- Designed and coded circuit with opto-isolators, microcontroller, lcd display, PWM control module, and utilized serial communication for external power supply, SD card usage, read fan tacos etc. Incorporated timers, flags, and state machines to keep main code loop clean and quick. Reduced fan testing time by 80%.
- Tested four fans every 20 seconds and recorded real time data for over 30 fan models. Saved hours in manual testing/kept servers from overheating.

Led Git Integration Project

- Presented about basic Git integration, and how to interact with GitHub.

Content Thread | Atlanta, Georgia

May – Aug 2022

Intern (Virtual)

Content Thread creates tools for clients to build more powerful websites.

Adobe Experience Manager Project

- Created on Python Scripts to edit large amounts of metadata in assets for clients' sites. Used scripts to either delete or add content using https requests for upwards for 150,000 assets.

Relevant Coursework

Digital Design Lab – Learnt about FPGA boards, drawing schematics, and using VHDL to represent Boolean logic. Built a rock paper scissors game out of VHDL logic and programmed it to function on the FPGA board.

VLSI and Advanced Digital Design - Advanced digital design issues in the context of VLSI systems. Introduction to a design methodology that encompasses the range from architectural models to circuit simulation.

Architecture, Systems, Concurrency and Energy in Computation - Basic organizational principles of the major components of a processor, e.g., the core, memory hierarchy, I/O subsystem and basic operating system constructs that utilize them.

Projects

Full Stack AWS Projects – Designed several chatroom and image sharing AWS project using AWS Cognito, Lambda, EC2, etc. and used JavaScript and HTML for front ends. Used docker, SQL, and DynamoDB as databases for data storage and used S3 and my own file system for storage of images. Hashed passwords and had secure login functionality for all projects.

FPGA Digital Audio Converter – Designed a peripheral on a simple computer made for the FPGA to create tuned notes from a sine wave. Added additional memory (Altsyncram) to hold another sine wave pattern to create different notes, tuned notes within 5% error margins, and used assembly code to create a simple demo to demonstrate functionality.