

Cole A. McGinnis

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Objective

Computer Engineering major with strong software and hardware skills who is ambitious to earn experience in the field by obtaining a Software Engineering internship for the summer of 2024.

Education

Georgia Institute of Technology | Atlanta, GA

Bachelor of Science in Computer Engineering, GPA 3.8

July 2021 – Present

Expected Graduation, Dec 2024

Skills

Programming: Python (Advanced), Java, JavaScript, HTML, CSS, SQL, PHP, FPGA, C, and Assembly (RISC-V & MIPS)

Professional Organizations: GT Motorsports, IEEE (The Institute of Electrical and Electronics Engineers) Chapter Member

Software: Tableau, GPT & Whisper APIs (OpenAI), Next.js, React, MATLAB, Pandas, Tensorflow, ArchiCAD (1st CAD Architecture TSA State), Video Editing (Moviepy & Davinci Resolve)

Hardware: Engine Control Unit, Power Distribution Module, Dashboard Display, CAN Bus

Communication: Leadership, Teamwork, Presentations, Customer Service

Awards: CirrusLabs Break the Site Challenge 3rd Place (Hack GT 9), 4x Dean's List Award Recipient

Experience

Cisco | Atlanta, GA | May 2023 – August 2023

Incoming Software Engineering Intern

- Plan to develop quality software for the Cisco Storefront and Sales team using knowledge from Java, SQL, and Python.

Verizon | Alpharetta, GA | June 2022 – August 2022

Network Engineering Intern

- Automated a comparison between two databases with over 3 million data points, saving 250 hours/week of manual labor.
- Utilized Python and SQL to automate primary project and uploaded comparison output to a Tableau dashboard.
- Analyzed dB predictions and created radio frequency design sheets for 2 cell towers in Georgia.

Projects

Georgia Tech Motorsports | Atlanta, GA | August 2021 – Present

Electrical Leader

- Leading a team of 7 electrical and computer engineers to design and manufacture an electrical system for a formula motorsports car.
- Led our team to achieve 7th out of 120 teams worldwide, marking our team's best placement since 2004.
- Designed (SOLIDWORKS Electrical) and constructed the electrical wiring harness for our 2023 & 2024 FSAE car. The harness connects 30+ sensors to the ECU and is robust and reliable.

AutoFed (AI) | Atlanta, GA | Spring 2023

Website/Head Developer

- Developed a TensorFlow AI model (Python) that predicts interest rates using 9 FED data inputs.
- Created a Next.js website with a Firebase backend to display predictions from the model.

WhichIsMoreExpensive.com | Suwanee, GA | Summer 2021

Website/Head Developer

- Designed, coded, tested, and published an interactive game website utilizing HTML, CSS, JavaScript, SQL, and PHP.
- The website includes backend data storage, a leaderboard, and modern CSS design elements.

Relevant Coursework

Math: Differential Equations, Linear Algebra, Multivariable Calculus, Calculus 1 & 2, Discrete Math, Statistics

Electrical Engineering: Computer Architecture, Digital System Design, Signal Processing, Digital Design Lab, Circuit Analysis

Computer Science: Java, Python, MATLAB, Programming for Hardware/Software Systems (C language)

Science: Chemistry, Physics 1 & 2