

Maddie Crowne

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EDUCATION

Georgia Institute of Technology, Atlanta, GA

Bachelor of Science in Computer Science | Expected May 2027

Georgia Tech Dean's List | Fall 2023 - Present

Selected Coursework:

Introduction to Databases (CS 4400), Design and Analysis of Algorithms (CS 3510), Mobile and Ubiquitous Computing (CS 4605), Systems and Networks (CS 2200), Introduction to UI Design (CS 3751), Computer Organization and Programming (CS 2110), Data Structures and Algorithms (CS 1332)

SKILLS

Languages: C, Java, Python, Assembly, MySQL

Web and Frameworks: HTML, CSS, Django, React.js

Tools: Docker, Git, CircuitSim, Firebase, Figma

Technical Skills: Computer Architecture & Processor Design, Algorithm Optimization, Database management, Network Programming, Data Structures & Algorithms, UI/UX Design Principles

EXPERIENCE

Software Engineering Intern, Mechanical Advantage LLC, Middlebury, VT | June 2024 - August 2024

Conducted data processing and analysis to identify trends to optimize machine operation

Independently designed and implemented a Chrome Extension (ProShop Data Scraper)

Developed Macro Code for CNC Mill Programs to output machine data for parsing

PROJECTS

5-Stage Pipelined Processor | Georgia Tech, Fall 2025

Developed an optimized processor in CircuitSim through the use of pipelining to execute Fetch, Decode, Execute, Memory, and Write Back stages

Implemented data forwarding and hazard detection in order to improve instruction throughput

ProShop Data Scraper | Mechanical Advantage LLC, Summer 2024

Built a Chrome Extension to maximize efficiency by automating data-scraping from the company database and generating PDF reports

Currently deployed and actively used by the company

Atlanta Food Finder & Spotify Wrapper | Georgia Tech, Fall 2024

Built full-stack Django-based applications in an team Agile environment

Implemented user authentication, database management, and external API connections

Spotify Wrapped Demo: <https://youtu.be/m3KPMIsTy0>

ACTIVITIES

VOICE Peer Educator, Georgia Tech | September 2023 - Spring 2025

Delivered workshops to on-campus organizations on topics relating to dating violence prevention

Organized events for awareness and survivor support, managed social media posts

AWARDS

DressCode: Winner of AI ATL Hackathon for Best Multimodal Application Track | 2024

Developed a web based platform that creates an inventory of a user's closet, gives the user AI suggested outfits based on weather and occasion, and offers a personalized Chat Bot to provide style advice on uploaded images

Utilized MongoDB, NLX, and Anthropic's Claude configuration to execute platform features

Project: <https://devpost.com/software/dresscode>