

Jeff Shelton

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EDUCATION

- Georgia Institute of Technology – B.S. Computer Science, 2025 – 4.0 GPA
 - Concentrations – Systems & Architecture, Intelligence

SKILLS

- C, C++, Javascript, Python, Rust, Swift, Java, and SQL
- Full-stack web development with React and Next.js
- Cloud management with Vercel, Cloudflare, and AWS
- Database management with PostgreSQL and SQLite
- Linux, Bash, and embedded ARM development
- Recently active DoD Secret Security Clearance

EXPERIENCE

SOFTWARE INTERN, NORTHROP GRUMMAN

MAY 2023 – JULY 2023

- Identified and patched 4+ bugs in the threat detection system of a U.S. military aircraft, written in **Ada**.
- Developed and fixed over 50 automated tests for the radar system of the aircraft, using **C#** and **XML**.
- Successfully presented a plan to revamp the testing program, changing the testing duties of 8 people.

SOFTWARE LEAD, YELLOW JACKET SPACE PROGRAM

AUGUST 2023 – PRESENT

- Lead a team of 16 engineers in writing the flight computer, ground server, and mission control software.
- Personally designed and write the software for the ground control server, written in **Rust** with a **SQLite** database.
- Wrote capability to track the rocket, relay information to human mission operators, and log sensor data.

TEACHING ASSISTANT, COLLEGE OF COMPUTING

AUGUST 2023 – PRESENT

- Teach a lab section of 60 students for Computer Organization and Programming (CS 2110) under Dr. Tom Conte.
- Among topics taught are transistors and logic gates, assembly programming, **C**, and **C++**.

SOFTWARE INTERN, SILVERVINE SOFTWARE

JUNE 2022 – AUGUST 2022

- Led the development of a testing solution for their insurance policy-tracking system that catches bugs before deployment using **Playwright** in **Node.js**, **Typescript**, and **GitHub Actions**.
- Took initiative to fix 10+ **SQL** injection vulnerabilities by writing a **Python** script that scanned for bad queries.

APP FREELANCER, A TRIP TO THE DENTIST

SEPTEMBER 2019 – DECEMBER 2020

- Helps special-needs patients become comfortable going to the Pediatric Dentistry of Central Georgia.
- Dual apps built with **Swift** for iOS and **Kotlin** for Android.

PROJECTS

COURSE SWAP

JANUARY 2023 – PRESENT

- A full-stack web application to help Georgia Tech students trade courses for mutual benefit during registration.
- Built with **Next.js** and deployed on **Vercel** at <https://course-swap.com>.

THE JDX PROJECT

MARCH 2021 – JULY 2021

- Created a set of libraries and tools which compress large datasets of images into a single minified file format.
- Increases the efficiency of image storage and modification in machine learning applications up to 10x.
- Components and libraries written in **Python**, **Rust**, and **C**.

DEGREES

JUNE 2018 – SEPTEMBER 2018

- An original iOS game where the aim is to collect a coin by flinging an orbiting circle out from a larger circle.
- Written in **Swift** with **SpriteKit** and published on the App Store.

... plus many more on my [GitHub](https://github.com/jeffcselton)