

Jake Fjelstul

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EDUCATION

Georgia Institute of Technology

Bachelor of Science in Computer Science

Threads: Intelligence and Devices

Atlanta, GA

May 2028

JOB EXPERIENCE

Delta Air Lines, Technical Operations

Summer Internship and Fall Co-Op

Atlanta, GA

May 2025 - Present

- Spearheaded the technical approach for a joint Delta-Google initiative, directing the development of a Gemini-based system to handle proprietary customizations. Delivered a React prototype used as the primary reference for the final design.
- Wrote SQL queries to identify a potential \$260,000 in cost savings by switching from OEM to PMA parts.
- Developed Python automation scripts to parse 5,000+ XML and PDF assets, reducing manual data retrieval time.
- Created executive presentations addressing the financials and data solutions of technology modernization efforts.

Biocircuit Technologies

Internship

Atlanta, GA

Oct 2024 - May 2025

- Managed inventory of 750+ product containers using Excel, processed incoming shipments, and fulfilled product orders.
- Developed an inventory manager using Agile principles to streamline the ordering process of Nerve Tape demo kit materials.
- Replaced legacy C programs with a Rust-based file reader, parsing through byte data to extract testing voltage metadata.
- Contributed to the frontend development of a medical nerve testing application using React, utilizing Git for version control within a cross-functional engineering team.

PROGRAMS

NSCDA National Essay Contest Scholarship

Essay/Scholarship Winner

Washington DC

Jun 2024

- Authored a nationally recognized essay analyzing the historical impact of the U.S. Founders establishing a Federal Republic.
- Met with Congressman Buddy Carter and his team to discuss the federal legislative process and Savannah Port initiatives.

Governor's Honors Program

Social Studies and Computer Science

Statesboro, GA

Jun 2023 - Jul 2023

- Researched global current events and strategies for combating terrorism.
- Analyzed the USPS's Python-based machine learning model for handwriting recognition.
- Created a business plan, revenue projections, and a website (HTML/CSS/JavaScript) for a nutrition drink startup.

PROJECT EXPERIENCE

CS 2340 FitJacket Project

Scrum Master

Atlanta, GA

Jan 2025 - Apr 2025

- Collaborated on a team using Scrum practices to develop a Django-based web application.
- Integrated Gemini and Google Fit API calls to generate custom workouts and display user fitness data.

Vex Robotics

Team Lead

Atlanta, GA

Sep 2021 - Mar 2024

- Programmed autonomous and manual robot navigation in C++, integrating vision, limit, and rotation sensors.
- Designed detailed 3D models using OnShape and SketchUp to simulate and optimize builds before construction.
- Maintained an engineering notebook documenting design iterations, manufacturing processes, and team communications.

CAMPUS & COMMUNITY INVOLVEMENT

Atlanta Community Food Bank

May 2021 - Present

- Packed 1500+ lbs of food on weekends, collaborating with volunteers to serve areas of extreme food insecurity.

Venetian Pools

Jun 2018 - Jun 2024

- Coached 250+ swimmers aged 5-18 across all skill levels, coordinating with parents to personalize training plans.

SKILLS/INTERESTS

Technology: Java, C++, C#, HTML, CSS, JavaScript, React, SQL, Rust, Python, Django

Awards: High School All American Swimmer and State Champion, Lopez-Klister President's Award

Activities: Swimming, Weightlifting, Hiking, Skydiving, Waterpolo, Traveling

Interests: Unity Game Development, Web Development, 3D Printing, Sketchup CAD, Woodworking