

Jacob Cole

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EDUCATION

Georgia Institute of Technology

Atlanta, GA

Master of Science in Computer Science – **GPA: 4.0**

Expected Graduation May 2026

Relevant Coursework: Data Structures, Algorithms, Software Engineering, Operating Systems, Computer Security

Purdue University

West Lafayette, IN

Bachelor of Science in Mechanical Engineering Technology

August 2017 – May 2021

EXPERIENCE

Software Engineer

August 2024 – Present

Georgia Tech VIP Program – Smart Stadium

Atlanta, GA

- Developed a chat interface in Swift for an iOS application, including a chat list, message creation, and individual chat screens for 500+ users, resulting in a 25% increase in user engagement.
- Integrated 4 API routes for real-time messaging and friend requests using Firebase, reducing load times by 15%.
- Built a real-time fan-based voting feature using Java Spring Boot, handling 100 requests per second to decide the most valuable player of Georgia Tech football games.
- Enhanced fan survey features, adding best game quarter tracking and resolving submission bugs.

Software Engineer Intern

June 2024 – August 2024

J and J Industrial Service

La Porte, IN

- Spearheaded the development of the company's inaugural website using React and Tailwind.
- Designed backend architecture with Express.js and MongoDB to store 200+ user emails, enabling newsletter subscription tracking.
- Integrated Auth0 for CEO authentication, securing access for email campaigns using Nodemailer.

Technical Program Manager

January 2023 – July 2023

Enfusion

Chicago, IL

- Led a team of 14 engineers to develop 2 web applications, aligning the product roadmap with business strategy.
- Designed a data warehouse project for managing forecasts and metrics using Tableau.
- Prepared the firm for 10x scale through infrastructure enhancements, ensuring 99%+ uptime.

Associate Project Manager

July 2022 – January 2023

Siemens

Chicago, IL

- Managed a team of 5 engineers to design building automation systems, increasing productivity by 18% through optimized project schedules.
- Supervised project budgets ranging from \$50,000 to \$500,000.

Systems Application Engineer

July 2021 – July 2022

Johnson Controls

Chicago, IL

- Engineered HVAC equipment selections and designs for various projects based on customer requirements.
- Managed a \$2.7 million project portfolio within 1 year, boosting project margins by 15%.

PROJECTS

FoodieFynd | [GitHub](#) | React, Bootstrap, Express.js, Node.js, Google Places API

September 2024

- Developed a restaurant randomizer application in React and Bootstrap, enabling users to discover restaurants based on proximity and attracts 50 daily users.
- Integrated the Google Places API with Express.js to fetch and display accurate restaurant data.

SpartaTrack | [GitHub](#) | React Native, Expo, Express.js, Node.js, Firebase

May 2024

- Received "It's My First Day" award at hackOMSCS for developing a full-stack fitness routine tracking application.
- Built RESTful API endpoints using Express.js, integrating them with React Native and Firebase for user authentication and data storage.

TECHNICAL SKILLS

Languages: Java, Python, C, C++, JavaScript, TypeScript, Swift, HTML/CSS, SQL

Frameworks: React, React Native, Node.js, Express.js, Spring Boot, Bootstrap, Tailwind, Expo, Plotly, Selenium

Tools: Git, Unix, GCP, Firebase, MongoDB, Docker, Heroku, JUnit, Postman, Android Studio, Jira