

Carl Paolino

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EDUCATION

Georgia Institute of Technology

Atlanta, GA

Bachelor of Science in Computer Science, Minor in Mathematics

August 2023 – May 2027

- Concentration in Intelligence and People
- Coursework: Data Structures & Algorithms, Object Oriented Programming, Design & Analysis of Algorithms, SQL, Artificial Intelligence, Web Development, Linear Algebra

EXPERIENCE

Software/Hardware Engineer

January 2025 – Present

Experimental Flights

Atlanta, GA

- Designing and coding software systems for a delivery quadcopter and VTOL drone enabling autonomous navigation and package delivery
- Collaborating with a Georgia Tech research team to apply hardware-software integration techniques, ensure balance stability, and produce flight

Web Developer

August 2024 – December 2024

WebDev @ GT

Atlanta, GA

- Collaborated with a team to conceptualize and develop a 3D web browser game from scratch
- Utilized Three.js/WebGL for 3D rendering and React.js for frontend development, ensuring a smooth and easily accessible browser game

PROJECTS

Shyply | *Next.js, TypeScript, PostgreSQL, Stripe, Cloudinary, Tailwind CSS*

May 2025 – Present

- Developing an AI-enhanced e-commerce platform featuring intelligent product discovery, dynamic filtering, and a simple, responsive UI for quick use
- Implementing smart authentication flows with NextAuth.js and automated checkout logic with Stripe
- leveraging PostgreSQL and Prisma for optimized, query-efficient data modeling along with Cloudinary for intelligent image optimization

QuickMap | *Node.js, React, TypeScript, HTML/CSS/JS, Google Maps API*

February 2025 – May 2025

- Designed and developed a web-based mapping application to improve the search and discovery of local activities and events
- Built a personalized activity discovery system prioritizing user preferences over default option-heavy map tools like Google Maps
- Implemented an intuitive user interface using React that enables real-time filtering and dynamic visualization of nearby activities

FitJacket | *OpenAI API, Strava API, Python with Django, SQLite, Git*

September 2024 – November 2024

- Developed a web application to help elderly and disabled users learn safe and personalized exercise with AI-assisted guidance
- Followed Agile methodology with two structured sprints, using Git and GitHub for version control and collaborative development
- Deployed the application that serves our refined user stories and use cases to drive feature design and ensure user-centered outcomes

TECHNICAL SKILLS

Languages: Java, Python, SQL, JavaScript, HTML/CSS, Rust, GO, TypeScript, SQL, R

Frameworks: React, Node.js, PyTorch, Django, Dialog Flow CX/ES, Bootstrap

Developer Tools: Git/GitHub, Google Cloud Platform, Visual Studio Code, IntelliJ, Cursor, PyCharm, Trello, Slack

Libraries: NumPy, Matplotlib, Pandas, React, Next.js, Spring Boot, Socket.IO, JUnit, Three.js, MongoDB, Docker