

ALEX THUMMALAPALLI

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EDUCATION

Georgia Institute of Technology

Candidate for B.S. in Computer Science

Expected Dec 2026

3.90 GPA, Provost Scholar (1 of 60 recipients)

EXPERIENCE

Citadel

Incoming Software Engineer Intern

Jun 2026 – Aug 2026

New York City, NY

Stripe

Software Engineer Intern

Jan 2026 – May 2026

Seattle, WA

- Currently working on the Self-Serve Direct Onboarding team to build frontend features in React/TypeScript for onboarding new merchants to Stripe, considering Know Your Customer (KYC) legal and institutional requirements
- Started a customer-facing experiment for testing a new form composition in the core onboarding flow

Amazon Web Services (AWS)

May 2025 – Aug 2025

Arlington, VA

Front-End Engineer Intern

- Built an interactive drag-and-drop playground using React/TypeScript for AWS Fault Injection Service (FIS) users to assemble cloud architectures and simulate fault injection using mocked resources prior to real-world testing
- Developed a custom simulation engine to emulate AWS resource behaviors, connections, and dependencies, tracking simulated client requests through an application architecture to visualize the impacts of various faults
- Validated customer assumptions via think-aloud usability studies with 25 tech professionals who use AWS, assessing FIS awareness, sentiment toward the new playground feature, and UX intuitiveness
- Ensured feature readiness with Jest/React Testing Library unit tests, code reviews, and language translation

PROJECTS

MIT Battlecode | Java

Jan 2026

- Placed top 6 at US Qualifiers and top 12 at Finals for MIT Battlecode 2026 as a solo competitor, playing against hundreds of teams from around the world in a month-long AI programming competition
- Developed algorithms that operate on limited information to make autonomous decisions in a turn-based strategy game involving resource management, territory control, and adversarial planning against other players

ByteFight | React, JavaScript, Electron, Next.js, Framer Motion, HTML, CSS

Mar 2025

- Created responsive landing page for ByteFight, a Georgia Tech AI coding competition run both as a standalone event and integrated into the Intro to AI (CS3600) class curriculum, driving participation from hundreds of students
- Redesigned downloadable Electron app for local match simulation, with intuitive controls and scenario testing

PrivacyPilot | React, JavaScript, MongoDB, Vite, HTML, CSS

Oct 2024

- Overall winner of the Google sponsor track and Best Use of MongoDB prize at the AI ATL Hackathon
- Engineered Chrome extension for scanning a website's Terms of Service against GDPR/CCPA privacy standards
- Automated website evaluation by parsing relevant links on the frontend, analyzing documents concurrently through asynchronous HTML scraping and AI calls, and caching results in MongoDB for reduced latency on repeated scans

Musiccharts | React, TypeScript, Next.js, Supabase, HTML, CSS

Mar 2024 – May 2024

- Leveraged Spotify Web API, streaming history logs, and user inputs to generate personalized web dashboard for visualizing music listening patterns across thousands of hours of a user's listening history
- Implemented statistical analysis for both overall trends and detailed breakdowns across specific songs, albums, and artists, showcasing listening retention, trends over time, popularity comparisons, and related suggestions

MarketMatch | React, TypeScript, Next.js, Zustand, HTML, CSS

Feb 2024

- Created frontend for a Tinder-inspired investment app where users swipe left or right to guide AI stock suggestions, allowing for personalized preferences and iteratively refined stock recommendations
- Integrated the IEX Cloud API to source real-time financial data for interactive stock info cards

SKILLS

Languages: TypeScript, JavaScript, HTML, CSS, Java, Python

Frameworks/Tools: React, Next.js, Jest, React Testing Library, Tailwind CSS, Supabase, Github, Git, Figma