

ALEX THUMMALAPALLI

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EDUCATION

Georgia Institute of Technology <i>Candidate for B.S. in Computer Science</i>	Expected Dec 2026 3.90 GPA, Provost Scholar (1 of 60 recipients)
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EXPERIENCE

Citadel Incoming Software Engineer Intern	Jun 2026 – Aug 2026
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Stripe Incoming Software Engineer Intern	Jan 2026 – May 2026
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Amazon Web Services (AWS) Front-End Engineer Intern	May 2025 – Aug 2025
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- 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
- Ensured feature readiness by writing Jest/React Testing Library unit tests, completing two-reviewer code reviews on each pull request, and adding support for multiple languages using content files with automated translation
- 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

PROJECTS

ByteFight React, JavaScript, Electron, Next.js, Framer Motion, HTML, CSS	Mar 2025
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- Created responsive, animated landing page to drive engagement for a month-long AI coding competition
- Designed performant Electron app for local match simulation, replays, and map design, mirroring the game engine used for cloud-hosted matches while allowing for offline access with intuitive controls and scenario testing

PrivacyPilot React, JavaScript, MongoDB, Vite, HTML, CSS	Oct 2024
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- 2x Hackathon Winner (Google Track, Best Use of MongoDB) at the AI ATL Hackathon
- Engineered Google Chrome extension for scanning and simplifying a website's Terms of Service using Google Gemini and Anthropic Claude AI models to analyze website policies against GDPR/CCPA 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

Musicharts React, TypeScript, Next.js, Supabase, HTML, CSS	Mar 2024 – May 2024
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- 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
- Engineered performant system for fetching and caching large amounts of data, considering rate and storage limits

MarketMatch React, TypeScript, Next.js, Zustand, HTML, CSS	Feb 2024
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- 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, displaying graphs / key details and integrating an OpenAI API endpoint to enable user-prompted queries on any metric

ACTIVITIES

GT Extended Reality, Developer	Oct 2023 – Jan 2025
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- Built a responsive landing page for GTXR with engaging visuals and content to promote club activities
- Created new website for the ImmerseGT 2024 Hackathon to facilitate student participation, driving 200+ signups

Web Development Club, Member	Sep 2023 – Mar 2024
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- Improved full-stack development and web design skills through collaboration in a project-based, team environment

SKILLS

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

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