

Alex Tyh Wang

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Summary

Computer science undergraduate seeking a software engineering internship/co-op for Spring and/or Summer 2027, with experience in full-stack design and development, generative AI integration, agent tooling, and production software systems.

Education

Rochester Institute of Technology

Bachelor of Science in Computer Science

Rochester, NY

Expected May 2028

Skills

Languages: Python, JavaScript, TypeScript, Java, C, C++, C#, SQL

Frameworks and Tools: React, Angular, Next.js, Spring Boot, REST, ASP.NET, Node.js, PostgreSQL, Azure DevOps, Jenkins

AI and Systems: Agentic engineering, prompt engineering, context engineering, LLM evaluation, AI agents, multi-agent systems, subagent architectures, MCP, tool calling, RAG, model reliability, token optimization, OpenAI API, OpenRouter

Experience

Software Engineer Intern

Jan 2026 – Aug 2026

Paychex

Rochester, NY

- Led development of an internal AI developer platform on the **AI Integrations** team that integrated **AI agents and MCP tooling** into enterprise developer workflows; presented the platform to executives.
- Built a custom **LLM evaluation harness** for **developer and Sales workflows** to assess model reliability and usefulness.
- Reduced token usage by **55%** with a **subagent architecture** while improving internal agent workflow performance.

Student Researcher

Jan 2026 – May 2026

Rochester Institute of Technology

Rochester, NY

- Conducted research on **large language models and memory**.
- Focused on how memory and context shape long-term model behavior.

Software Engineer Intern

Feb 2025 – Aug 2025

Real Wave Capital

Remote

- Architected production-grade Angular and TypeScript UIs for autonomous AI agents and rewrote MCP tool-calling and context strategy, supporting 100+ daily users and reducing token spend by roughly 50%.
- Integrated OpenAI API and OpenRouter into production agent flows with .NET backend contributions, improving endpoint response times by 25% and scaling to 6,000+ weekly requests.

Projects

Chatio Agentic Behavior Benchmark and Chat App

Jun 2025 – Present

Next.js, Python, TypeScript, Agentic Behavior

chatio.dev

- Built an end-to-end benchmark platform for LLMs measuring real-world usability through task-driven tests.
- Created a production-grade streaming chat interface using Next.js 15 App Router with real-time SSE streaming, multi-step agentic workflows, tool calling, and dynamic parameter optimization.
- Engineered a high-performance persistence layer combining IndexedDB with Cloudflare R2, reducing image storage by 95% through intelligent compression.

Word Hunt

Sep 2024 – Dec 2024

Next.js, TypeScript, Figma

wordhunt.org

- Built and launched a Next.js word game that reached **250K+ impressions** and **3.9K organic clicks**.
- Designed and implemented daily puzzles, free play, friend challenges, and leaderboards in TypeScript and Figma.

Leadership and Activities

Founder and President

Jan 2022 – Present

Bay Area Stem Academy

San Jose, CA | bayareastemacademy.org

- Founded a 501(c)(3) nonprofit that taught **660+ students** through **15+ free camps**, partnered with **5+ schools**, and delivered **\$35,000+** in free STEM education.
- Led curriculum, workshops, outreach, and operations; donated **\$5,000+** to partner organizations and teams.
- Led a **SanDisk** volunteer-day partnership that mobilized employees to build STEM kits for future programs.

Event Coordinator and Executive Board Member

Sep 2024 – Present

RIT Asian Culture Society

Rochester, NY

- Co-leading a community of **200+ members** and organizing meetings, fundraising, and Night Market, an annual university-wide event with **600 attendees**.