

Aaron Li

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Education

Stony Brook University, College of Engineering and Applied Sciences

Bachelor of Science in Computer Science

May 2024

GPA: 3.51/4.00

Experience

Software Engineer II | Geico

July 2024 - Current

- Designed and implemented enterprise-scale GitOps platform using ArgoCD, orchestrating API deployments across 15+ environments and multiple Azure Kubernetes clusters
- Accelerated API delivery by 90% by automated GitOps workflows, reducing deployment cycles for platform services
- Architected zero-downtime deployment strategies for high-traffic API gateways and microservices, ensuring continuous service availability for millions of daily API requests
- Established self-service platform infrastructure enabling development teams to rapidly deploy and scale APIs, reducing environment provisioning time from days to under 2 hours
- Maintained 99.9% uptime across 100+ applications through on-call incident response, monitoring, and API governance

Event Coordinator, Fundraising Chair, Graphic Designer | Asian Students Alliance

Sep 2021 - May 2024

- Communicated with over 30 businesses to organize fundraisers, resulting in year over year growth of 25% in funding
- Coordinated with over 20 campus organizations and faculty staff to plan and host events for over 2000 attendees a year
- Mentored 14 members on technical skills, achieving a 90% retention rate and scaling events by 40% annually
- Developed visuals and managed social media to promote Asian culture that led to a 86% increase in campus presence

Projects

TixBot | Python, Google Cloud APIs, Ticketmaster API, Spotify API, Oracle Cloud

Dec 2025 - Current

- Engineered a nightly Ticketmaster API pipeline scanning 104 weekly windows (2 years of data) with recursive binary window-splitting for 1,000+ result sets, enriched with Spotify metrics to prioritize presale opportunities
- Built a resilient async Python backend (asyncio, aiohttp) with multi-level timeouts and rate-limit handling
- Deployed production application on Oracle Cloud integrating 5 external APIs via OAuth2 and service accounts
- Automated Discord post generation and Google Calendar syncing by integrating Gemini AI to process natural language queries

ViBE | Svelte, TypeScript, Firebase

May 2022 - May 2024

- Facilitated test driven development through end-to-end and unit tests with mocks using Jest, MSW, and Playwright
- Achieved a 52% improvement in usability for users with disabilities by adhering to web accessibility standards
- Increased mobile user satisfaction by 32% by implementing responsive web development best practices

Cartistry | React, JavaScript, Express, MongoDB

Aug 2023 - Dec 2023

- Enhanced flexibility and scalability with MongoDB to perform CRUD operations on user map data and metadata
- Improved code quality by 30% through the implementation of global state management to combat common challenges
- Cooperated with 3 members in parallel by leveraging Git version control operations to reduce turnaround time by 15%

Skills

- **Programming Languages:** Java, Python, C++, C#, JavaScript, TypeScript, C, HTML, CSS, MIPS
- **Frontend Technologies:** React, Svelte, Vite.js, Bootstrap, Tailwind CSS, Material UI, GSAP
- **Testing & Quality:** Playwright, Cypress, Vitest, Jest, ESLint, Prettier, Grafana
- **Backend & Infrastructure:** Node.js, Express.js, Firebase, MongoDB, MySQL, REST APIs
- **Cloud & DevOps:** AWS, GCP, Azure, Vercel, ArgoCD, Kubernetes, Kubectl, Git, Helm, Oracle Cloud