

Alexander Lin

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SKILLS

Languages: Python, Java, Bash, C++, TypeScript, JavaScript, SQL, Swift, HTML/CSS

Frameworks & Libraries: LangChain, FastAPI, Next.js, SvelteKit, Tailwind CSS, Cypress, PyAutoGUI

Cloud & DevOps: Docker, Terraform, GitHub Actions, Google Cloud Run, GCP, Azure, OCI, Vercel

Databases & Enterprise Platforms: Pinecone, Oracle APEX, Oracle EBS, Microsoft Graph API, SharePoint Admin

Systems & Tools: Linux Administration, WSL, Git/GitHub, Microsoft 365 Copilot

EDUCATION

California State Polytechnic University

Pomona, California

Bachelor of Science – Computer Science / Cum laude

Graduation: December 2025

Focus areas: Artificial Intelligence, Cybersecurity, Systems & Software Engineering

Oracle APEX Bootcamp – Oracle Developer Tools User Group (Kscope 25)

Dallas Fort-Worth, Texas

Hands-on training in Oracle APEX, SQL, and PL/SQL application development

June 2025

EXPERIENCE

California Institute of Technology – Information Management Systems & Services (IMSS)

Pasadena, CA

Software Engineering Intern

June 2025 – August 2025

- Automated quarterly Java-based validation of Oracle E-Business Suite (EBS), significantly reducing manual QA effort each quarter through automation.
- Built Microsoft 365 Copilot AI agents using prompt engineering to automate timekeeping analysis, benefits analysis, and status report generation.
- Automated faculty access management workflows by pulling user data from SharePoint via Microsoft Graph and generating standardized access lists (CSV/UIDs) for seamless Oracle integration and faster authentication approvals.

Software Engineering Intern

June 2024 – August 2024

- Developed Cypress automation for load testing high-traffic class registration systems, ensuring cross-browser stability.
- Debugged and resolved failing test cases, boosting test accuracy and compatibility across multiple platforms.
- Authored SharePoint-based training materials on Cypress automation (guides, videos).

API Services

Full-Stack Developer (Independent Contractor)

2025 – Present

- Developed and deployed an AI-powered knowledge search system leveraging machine learning to make 300+ internal documents instantly accessible to staff, with automated updates, reliable cloud hosting, and always-on availability.

Administrative Assistant (Independent Contractor)

2021 – 2025

- Provided day-to-day IT support and systems management, including software rollouts, security updates, hardware setups, and SharePoint integration to keep staff productive and reduce downtime.

NASA CubeSTEP Flight Software

Subteam Lead/NASA M-STAR Student Researcher

2023-2025

- Developed flight software in C++ with NASA's F' framework, tested on spacecraft hardware for mission-critical reliability. Collaborated directly with NASA/JPL engineers to integrate and test software with spacecraft hardware systems.
- Collaborated in Agile-based workflows with NASA/JPL engineers to integrate CubeSat subsystems.
- Planned RTOS implementation to support real-time spacecraft operations.

alexanderlin.com (portfolio website)

- Built and launched a production portfolio site showcasing projects and technical work
- Simplified deployment and hosting to reduce operational complexity and failure points while maintaining reliability
- Improved performance and user experience through modern frontend practices and targeted optimizations