Alexander Lin

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github.com/alexanderlin-com | alexanderlin.com | US Citizen

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

Greater Los Angeles Area Mensa
Co-Chair, Digital Communications Committee *Feb 2026 – Present*
- Leading the redesign and redevelopment of the chapter's public website, including architecture, frontend implementation, and deployment strategy
- Owning the full website lifecycle, from requirements gathering with board members to implementation, testing, and ongoing maintenance.
- Improving site reliability, maintainability, and ease of content updates while reducing the risk of unauthorized or inconsistent changes

California Institute of Technology – Information Management Systems & Services (IMSS) *Pasadena, CA*
Software Engineering Intern *June 2025 – August 2025*
- Automated quarterly Java-based validation for Oracle E-Business Suite (EBS), reducing recurring manual QA effort through reliable automation.
- Built Microsoft 365 Copilot AI agents using prompt engineering to automate timekeeping analysis, benefits analysis, and status report generation.
- Automated faculty access management by integrating SharePoint data via Microsoft Graph and generating standardized CSV/UID outputs for Oracle workflows.
- Collaborated with offshore developers to deliver production-ready automation solutions.

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).

APL 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.