

# Alexander Lin

(909)680-5799 | [alexander.lin.us@gmail.com](mailto:alexander.lin.us@gmail.com) | [linkedin.com/in/alexanderlin-com](https://linkedin.com/in/alexanderlin-com)  
[github.com/alexanderlin-com](https://github.com/alexanderlin-com) | [alexanderlin.com](https://alexanderlin.com) | US Citizen

## SKILLS

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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

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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

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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).

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.

*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