Alex Nguyen

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EDUCATION

University of California Davis   **Davis, CA**
Bachelor of Science in Computer Science   *September 2018 – March 2022*
- Relevant Coursework: Data Structures, Algorithms, Web Development, Computer Networks, Operating Systems, Artificial Intelligence

TECHNICAL SKILLS

Programming Languages: Python, C++, Go, JavaScript, Shell Scripting, SQL
Frameworks & Libraries: React, Node.js, Express.js, Selenium
Databases: PostgreSQL, MongoDB, MySQL
Cloud Platforms: AWS (Lambda, RDS, CloudWatch), Google Cloud, Cloud Foundry

DevOps & CI/CD Tools: Git, Linux (Bash), Ansible, Kubernetes (kubectl), GitHub Actions, GitLab CI/CD, Vcert CLI, Venafi, GitHub CLI, AWS CLI
Automation & APIs: Oxylabs proxies, REST APIs, SP-API, Google Apps Script
Methodologies: Agile, Scrum

WORK EXPERIENCE

Intel Corporation   **Folsom, CA**
DevOps Software Engineer   *March 2022 - August 2025*
- **Designed and automated** a certificate renewal system across **seven mission-critical applications serving up to 5,000 users** on **Linux, Windows, and Kubernetes**, leveraging **Python, Shell Scripting, GitHub Actions, Ansible, Venafi CLI, and cron jobs**. Improved **uptime, security compliance, and reduced maintenance overhead by 90%**.
- **Modernized** a legacy **MySQL inventory system** by developing a **full-stack web application** with **React, HTML, CSS, JavaScript**, and a **Node.js/Express.js backend**. Integrated with **MySQL** for **real-time data management** and deployed on **Cloud Foundry**, boosting **team efficiency by 50%** and reducing **manual data entry by 60%**.
- **Engineered automated monitoring and alerting solutions** by integrating data from **Elastic Cloud on Kubernetes (ECK)** and **AWS CloudWatch**, utilizing **Python, Selenium (web scraping), AWS CLI, and GitHub Actions** to trigger real-time alerts. Increased **infrastructure visibility** and improved **incident response time**.
- **Collaborated cross-functionally** with developers, clients, and product owners in an **Agile/Scrum environment** using **JIRA**, ensuring on-time delivery of features aligned with sprint objectives.

- Led architecture, designed, and deployed automation workflows and scalable backend services leveraging **Python, AWS Lambda, EventBridge, Step Functions, SQS, and PostgreSQL** to streamline operations and improve system reliability.
- Built and maintained **CI/CD pipelines with GitLab and GitHub Actions**, enabling faster, more reliable deployments and reduced manual overhead.
- Implemented **real-time monitoring and alerting systems** for critical events, improving reliability, increasing operational efficiency by up to **80%**, and reducing infrastructure costs by up to **50%**.
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LANGUAGES

- English, Vietnamese