

# Zhao (Alan) Li

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## SUMMARY

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I want to die knowing I gave back to humanity as much as it has given me. I love working on software systems comprised of services that automate everything and gain insight from wild data. I have a current **TS SCI** clearance.

## TOOLS USED

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- Frontend Languages: HTML/HAML/SLIM, CSS/Sass, JavaScript/TypeScript/CoffeeScript
  - Backend Languages: J/Ruby, Python, Shell/Bash Scripting, Java, Matlab, C
  - Frameworks: Ruby on Rails, Django, EmberJS, AngularJS, ExpressJS, Spring Boot
  - Databases: PostgreSQL, MongoDB, Neo4j, MySQL
  - APIs: JSON API Spec, RESTful API, Web Application Messaging Protocol, Web Sockets
  - Developing on Containers: Docker, Docker-Compose, Docker-Machine
  - Hosting Containers: OpenShift, Cloud Foundry, Kubernetes, AWS ECS
  - Infrastructure as Code: Terraform, Cloud Formation, Ansible, Puppet, Chef
  - Cloud/Virtualization: Virtual Box, vSphere, Amazon Web Services, IBM Cloud

## EXPERIENCE

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### Space and Naval Warfare Systems Command (SPAWAR) 2012 – Present

*Consultant, Subject Matter Expert, System Architect, Software/Data Engineer*

- Consulted multiple projects on technical architecture to meet mission objectives
- Learned and became the subject matter expert in container, cloud, and SecDevOps technologies
- Mentored and trained up multiple small teams of junior developers
- Architected and built a system of services to ingest, analyze, and visualize hardware sensor data
- Promoted continuous testing, integration, and deployment culture in multiple development teams
- Laid the foundation for SecDevOps using CI/CD tools on multiple projects and platforms
- Established the scrum/agile/extreme-programming development process for multiple technical teams
- Advised multiple project managers on software tools and workflows that can help their team succeed
- Bridged the communication gap between technical and non-technical team members

### University of Hawaii at Manoa, College of Engineering 2013 – 2021

*Lecturer, EE160: Programming for Engineers and EE491F: Data Driven Web Development*

- Created an entirely new 400-level online course
- Merged industry software practices with classroom paradigms to create a new, enjoyable course
- Managed a team of 4 teaching assistants and 2 graders to run a course with 80+ engineering students
- Streamlined classroom workflow for students to self-test and submit assignments easily
- Automated the grading process to help graders verify 80+ submissions per assignment

### Northrop Grumman, Space Technology 2007 – 2011

*Communication Systems Engineer*

- Combined big-picture, system-level understanding to facilitate detail-oriented, component-level design
- Negotiated requirements between various stakeholders to reach a win-win
- Followed a top-down requirement flow down process

## EDUCATION

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### University of Southern California 2007 - 2009

*Master of Science in Electrical Engineering – Communication Systems Emphasis*

- 3.5 / 4.0 GPA, Recipient of Northrop Grumman Fellowship (Work/Study Program)

### University of Hawaii at Manoa 2002 - 2006

*Bachelor of Science in Electrical Engineering – Systems Track*

- 3.7 / 4.0 GPA, Member of Eta Kappa Nu (HKN: Electrical Engineering Honor Society)

REFERENCES AVAILABLE UPON REQUEST