

Dewey Hong

Staff Software Engineer

San Jose, CA, United States | [LinkedIn](#)

Software Engineer specializing in platform engineering with a robust background in the computer software industry. I bring a wealth of experience and a proven track record of success, particularly in JAVA, Python, Node.js, Golang, AWS, and Kubernetes, backed by my CKA (Certified Kubernetes Administrator) and CISA (Certified Information Systems Auditor) certifications.

I excel in DevOps, automation, and CMS development, driving efficiency and reliability throughout the software development lifecycle. My expertise lies in creating and deploying sophisticated network security solutions using a variety of technologies and frameworks.

I have played a key role in numerous large-scale projects, including network load balancing, vulnerability scanning, real-time streaming processing, and service monitoring, ensuring high performance and security across platforms.

EXPERIENCE

Staff Software Engineer

Jun 2015 — Present

Fortinet

San Francisco Bay Area

- Automated firmware image builds using Chroot and Vagrant, integrated with Jenkins pipelines
- Led the development of admin tools for FortiSwitch using Cython, Python, Vue.js, and jQuery
- Developed a web-based terminal emulator to enable direct FortiSwitch CLI access from the browser
- Implemented network load balancing for Java applications using HTTP, TCP, and DNS technologies
- Developed and maintained a vulnerability scanning tool using Golang and Python
- Engineered real-time streaming processing systems with Apache Storm and Esper, integrated with ZMQ, Graphite, and Kafka
- Set up and managed DevOps environments using Vagrant, Chef, and Docker
- Integrated and optimized system monitoring and data storage solutions with Graphite, ZMQ, MySQL, Redis, and Elasticsearch
- Developed a custom PowerDNS ZMQ plugin using Python
- Created and managed Debian and RPM packages for Ubuntu and Fedora distributions
- Designed and implemented statistical charts for network usage, leveraging D3.js, Google Maps, AmCharts, JQuery, and PHP
- Implemented Infrastructure as Code (IaC) using Terraform for managing EKS clusters on AWS and GCP
- Successfully migrated approximately 50 applications from EC2 and ECS to EKS
- Configured CI/CD pipelines using Jenkins, GitHub Actions, and ArgoCD to streamline deployment processes
- Developed custom tools for building Kubernetes resource templates
- Created automation and monitoring tools to detect and resolve system errors
- Built an AWS CLI tool to manage Golang application build environments with dynamic spot instances.

Senior Software Engineer

Feb 2014 — Apr 2015

Locket

San Francisco Bay Area

- Developed RESTful APIs for Android applications using the Play! framework
- Automated deployment processes using Jenkins, ANT, and Unix shell scripting
- Built a Content Management System (CMS) using Node.js and Angular.js
- Created service monitoring tools leveraging Node.js, Python, and Java
- Configured and managed server infrastructure on AWS, including EC2, Load Balancers, RDS, Redis, S3, and Route 53
- Developed log analysis tools using Apache Tajo and Elasticsearch with Java
- Implemented Android features for seamless service integration.

EDUCATION

Kyung Hee University

PROJECTS

FortiDirector

Locket CMS / Website / Analytics

- server-side: node.js, play framework
- front-end: angular.js
- analytics: elasticsearch, logstash, kibana
- server: aws ec2

ScreenPop - Lock Screen Messenger

LG Electronics, global web sites

- Developed localized global sites for 100 countries and admin tools. : <http://www.lg.com/global>
- Created administration tools for front system integrated WCMS(HP Automomy).
- Changed from distributed multi-instance over several countries to single-instance from korea.
- Collaborated with web publishing company (Publicis Modem) and search engine(Oracle-endeca).

Skill used : J2EE MVC, XML(XSLT), JQuery, Mash-up(Google Maps, Social API) / ajax (Server-side json parser), Oracle, Tomcat/Apache, JBOSS, Jenkins, CVS, Ant, SEO, CDN, wiki, Google Docs, Agile methodology (SCRUM), Batch Systems (Batch operating / managing system with scheduler)

LG-CNS datacenter activation planning

Planning & prototyping project for global data center(india, china)

CERTIFICATIONS

Kubernetes and DevOps, TestDome Jan 2021

SAP BC(Basis Consultant), SAP AG Mar 2013

LG CNS Enterprise Challenge Competition, LG CNS CEO Oct 2008

CKA: Certified Kubernetes Administrator, The Linux Foundation

CISA, ISACA

SKILLS

Gitlab · Python (Programming Language) · Software Infrastructure · Spring Boot · Amazon EKS · Cloud Computing · Jenkins · Elasticsearch · Terraform · Amazon Web Services (AWS) · Kubernetes · Elastic Stack (ELK) · Web Services · Unix Shell Scripting · Docker · Python · Java · PHP · Springs · Ansible · Vagrant · Node.js · Go (Programming Language) · Google Cloud Platform (GCP) · Apache Storm · Graphite · Chef