



Casey Lee

Technology Leadership ☆ Cloud Architecture ☆ Software Engineering

- Passionate about applying DevOps practices in the enterprise.
- AWS Container **Hero**

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🔗 GitHub Projects

- **stelligent/mu** » Continuous delivery of microservices on AWS
 - Developed based on best practices from past projects.
 - Used by AWS to develop a **workshop** to teach ECS.
- **stelligent/pipeline-dashboard** » Simple dashboard for pipelines on AWS
 - Capture continuous delivery metrics from AWS CodePipeline via serverless architecture
 - Deployable from **AWS Serverless Repo**

📖 Sharing

- Conferences
 - **AWS re:Invent 2017: Using AWS to Achieve Both Autonomy and Governance at 3M (DEV332)**
- Webinars
 - **Microservices as Containers on AWS...for Fun and Profit**
 - **AWS re:Invent 2017 DevOps Re:Cap**
 - **Dos and Don'ts for DevOps Automation on AWS**
 - **AWS re:Invent 2018 DevOps Re:Cap**
- Podcasts
 - **DevOps on AWS Radio: Serverless Delivery with Casey Lee (Episode 2)**
 - **DevOps on AWS Radio: mu - DevOps on AWS tool (Episode 10)**
 - **DevOps on AWS Radio: Containers on AWS with Casey Lee (Ep. 21)**
- Blog Posts
 - **Pipelines For Container Applications Made Easy with mu (AWS Open Source)**
 - **Announcing EKS Support in mu (AWS Open Source)**
 - **Introducing mu: a tool for managing your microservices in AWS (Stelligent)**
 - **Microservice testing with mu: injecting quality into the pipeline (Stelligent)**
 - **Microservice databases with mu (Stelligent)**
 - **Service discovery for microservices with mu (Stelligent)**
 - **Serverless Delivery: Architecture (part 1 of 3) (Stelligent)**
 - **Serverless Delivery: Bootstrapping the Pipeline (part 2 of 3) (Stelligent)**
 - **Serverless Delivery: Orchestrating the Pipeline (part 3 of 3) (Stelligent)**
 - **Microservices Platform with ECS (DZone)**
 - **Drift Detection in Continuous Delivery Pipelines (DZone)**
 - **More DZone posts... (DZone)**

📁 Professional Experience

- Chief Architect/VP Engineering, Stelligent, Sacramento, CA (Jan. 2016 – Jan. 2019)
 - Java Python Go Node.js AWS Kubernetes**
 - Worked with customers to assess requirements and then architect and deliver solutions to help them increase the speed and safety by which they deliver their applications
 - Led the development of repeatable solutions for continuous delivery pipelines in AWS
 - Supported the acquisition and integration of the organization by **HOSTING** and then **Mphasis**
 - Customer Case Studies
 - **3M**
 - **Verizon**
 - **Washington Post**
- Enterprise Architect, VSP Global, Sacramento, CA (Jun. 2013 – Jan. 2016)
 - Java Node.js JAX-RS Spring Maven AWS Chef Docker Tomcat**
 - Selected to serve as enterprise architect for VSP Global providing direction across all lines of business for infrastructure, data, application and business architecture.
 - Led the migration of architecture for the organization from SOAP services on WebSphere running on AIX to REST APIs on JBoss and Tomcat running on Linux saving hundreds of thousands of dollars in license costs
 - Implemented DevOps tooling and processes for the organization including automation with Chef and virtualization on both AWS and VMware to provide developers with self service capabilities to provision machines in minutes rather than days
 - Architect security around the APIs and websites using industry standards such as OAuth 2.0 and

- OpenID Connect
- Established an Open Source Software contribution program to encourage developers to engage and contribute back to the open source community
- Initiated research and development efforts around Spring Boot and Docker including proof of concepts and adoption roadmaps
- Educated and supported the development teams on the adoption of the new technologies
- **Staff Application Developer, Vision Service Plan, Sacramento, CA (Aug. 2005 – Jun. 2013)**
 - Java** **JAX-WS** **JAX-RS** **Maven** **WebSphere** **DB2**
 - Selected to serve as a technical specialist on the design, architecture, and development of software systems.
 - Led team of engineers to design, develop and support a web-based CRM system for use by the 500+ customer service representatives to replace 20+ year old legacy mainframe applications and handle over 20,000 live phone calls per day.
 - Led the research and acquisition of a Case Management and BPM system for the support of the workflows between our Claims, Customer Service, Fraud and Provider Relations groups. The implementation of the new system realized a savings to the business area of over \$600,000 annually.
 - Championed the adoption of the Scrum methodology on our project team and evangelizing agile practices to the rest of IT such as TDD, Continuous Integration via Jenkins, short sprints of less than 2 weeks, story points and team collocation.
 - Received a Platinum Award (given to one employee annually) for implementing an OSGi framework in our SOA enabling local service bindings with performance improvements that allowed for a savings of 10+ seconds per phone call realizing a savings to the company of over \$800,000 annually.
- **Senior Software Engineer, O1 Communications, Sacramento, CA (Mar. 2003 – Aug. 2005)**
 - C/C++** **Java** **SS7** **SIP** **Linux** **MySQL**
 - Selected to serve as a technical specialist on the design, architecture, and development of software systems and software projects.
 - Led team of engineers to design, develop and support a softswitch providing SIP (RFC 3261-3265) to ISUP (ANSI T1.113) gateway service to a statewide VoIP network written in C. Supported TCAP (ANSI T1.114) and ENUM (RFC 3761) for IN infrastructure.
 - Led team of engineers to design, develop and support a RADIUS (RFC 2865-2866) application capable of handling more than 10 million calls per day.
 - Instrumental in the design and implementation of a data driven MVC (Model View Controller) architecture for company core software application utilizing proven patterns and best practices.
- **Senior Application Developer, Innotas, Sacramento, CA (Mar. 2001 – Mar. 2003)**
 - Java** **Struts** **Tomcat** **Ant** **Oracle**
 - Selected to serve as a technical specialist on the design, architecture, development and maintenance of software systems and software projects.
 - Led team of engineers to develop and support core software using the eXtreme Programming methodology for a Project Portfolio Management software application.
 - Instrumental in the design and implementation of a data driven MVC (Model View Controller) architecture for company core software application utilizing proven patterns and best practices such as JSP, Tiles, Struts, and EJB .
- **VP Technology, The Grid, San Luis Obispo, CA (Mar. 1996 – Sep. 1999)**
 - Partnered on the start-up of an Internet Service Provider; eventually sold to OneMain.com.
 - Developed core intranet providing a web-based CRM, accounts receivables, lead tracking, human resource management, marketing and finance reporting, and trouble ticketing to the company.
 - Designed, implemented and managed a complex statewide DS3 network with multiple BGP peers, digital modem pool of over 5000 modems and server clusters of web, email, and DNS utilizing Sun servers, Cisco routers, switches, and firewalls.
 - Instrumental in planning the integration of the 20 acquired ISPs and 750,000 dial-up subscribers into a single network infrastructure yielding an aggregate cost of access revenue at 28% of total revenues.

Education

Degree	Major	Institution
B.S.	Computer Engineering	California Polytechnic State University-San Luis Obispo

Publications

- **JAX-RS: Java™ API for RESTful Web Services, Version 2.1 Proposed Final Draft, June 15, 2017.**