# JASON PARRAGA

SENIOR SOFTWARE ENGINEER   📞 203 820 1583

## ○ DETAILS ○

203 820 1583
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## ○ SKILLS ○

Java

Kotlin

Python

Kubernetes

Distributed Systems

Security

## 👤 PROFILE

Dedicated backend software engineer with 7+ years of experience working in startups. Previous experience has focused on distributed systems, security, identity management, and building reusable infrastructure.

## 💼 EMPLOYMENT HISTORY

### Senior Software Engineer at Argo AI, Palo Alto
September 2019 — Present

- Architected and implemented comprehensive solution for authenticating and authorizing gRPC requests in a JVM based microservice architecture. Supported OEM partners via client certificate authentication, internal employees via Okta, and internal service accounts via API keys.
- Designed and implemented a dynamically provisioned pub/sub messaging solution built on top of AWS SNS and SQS. Allowed services to safely and easily fan-out notifications to other services and OEM partners (with authorization based filtering).
- Evaluated and later deployed Istio service mesh orchestration to production on team kubernetes cluster. Improved security with secure gateways and service mesh mTLS. Improved observability with distributed tracing, metrics, and logging.
- Architected and implemented an alerting agent and service. Allowed services to raise application level alerts and allowed operations to view and triage alerts in real time.
- Developed a service for generating and assigning randomized trips to autonomous vehicles within a geofence. Used daily by vehicle operations for accumulating autonomous miles.

### Software Engineer & Senior Software Engineer at Big Switch Networks, Santa Clara
August 2013 — September 2019

- Helped company close multi-million dollars deals by building core security and TLS encryption infrastructure into product's distributed system in order to achieve several government security certifications (FIPS, UC APL, etc).
- Responsible for "zero touch networking" product feature which seamlessly onboards network devices into the fabric and synchronizes management plane configuration (NTP, Syslog, SNMP, SSH, etc) onto devices.
- Responsible for product AAA (authentication, authorization, and accounting) strategy. Added support for TACACS+, RADIUS, RBAC, API tokens, and two factor authentication.
- Developed infrastructure for automating interactive firstboot process of product on private (VMWare, KVM) and public cloud (AWS, Azure).

## 🎓 EDUCATION

### BS Computer Science, Marist College
September 2010 — May 2014

## ⭐ Creator of DIYGuys Youtube Channel
December 2015 — Present

- Script, film, and edit videos focused on automotive maintenance and time attack racing with Final Cut Pro X.
- Accrued over 7500 subscribers and 1,000,00 video views.