

Skills

- Languages: Go (4 years), PHP (3 year), Bash (5 years), Java, Python, Javascript, HTML, CSS, C, C#, Verilog
- CI/CD for several teams. Gitlab-CI, Jenkins, Circle-CI, Travis-CI.
- AWS ECS, EC2, ELB/ALB, S3, Route53, EMR, etc
- Utilizing Gitlab, Terraform, ELK, Jira, Confluence

Experience

Software Development Engineer

Tune & Branch | *Seattle, WA* | 2016 - 2019

- **Software Engineer - Branch Migration**
 - Facilitated seamless customer experience in transition to Branch by implementing tooling for migrating webhook templates between Tune's and Branch's domain specific languages.
 - Ensured identical customer experience by automating Tune webhook exports using CI/CD tooling for data comparisons.
 - Responsible for mirroring of billions of requests per day with less than 0.1% error rate through both Branch and Tune systems.
- **SDE II - Tune Data Core**
 - Reduced cost by migrating production services from over-provisioned reserved hardware to autoscaling Amazon ECS.
 - Improved customer satisfaction by hunting down and fixing customer issues in multi-service pipelines.
 - Contributed to reliability by being on-call for 30K rps distributed system with regular operational overviews.
 - Improved developer productivity by decreasing time to complete CI/CD jobs for build, test, and deploy utilizing caching, docker image optimization, and multi stage pipelines.
- **SDE I - Tune Data Core**
 - Increased development throughput by containerizing dev environment for services and infrastructure in Go & PHP.
 - Aligned terminology within engineering teams with documentation and classes.
- **SDE I - Tune Research & Development**
 - Implemented initial CI/CD for build and test on PR, deploying to staging, and deploying to production.

- Rapidly created new services utilizing **truss**.
- Scaled new multi-service product from 1 host to autoscaling on Amazon ECS.

- **Intern - Tune Research & Development**

- Decreased development time by co-authoring **truss**, a code generation tool.

Co-Creator & Key Contributor

truss | github.com/metaverse/truss | 2016 - Current

- *golang, protobuf/gRPC*.
- Rapidly build gRPC&HTTP 1.1/JSON services by generating messages and encode/decode logic from protobuf/gRPC definitions.
- Production usage at Tune and Glympse.
- Active contributions through pull requests and issues.

Chief Operations Officer

StudentRND - 501c3 | *Bellevue, WA* | 2010 - 2013

- Networked with professionals in industry to develop resources for students to design, manufacture, test, & sell experimental products.
- Grew programming marathon, CodeDay, from grassroots to national event.
 - 2011: First event.
 - 2012: First out of Washington; in Portland, OR.
 - 2013: Events in 5 major cities (Seattle, Portland, San Francisco, Los Angeles, and New York City).
 - Since 2011, more than 35,000 students have attended over 350 CodeDays across the US and Canada.
- Raised over \$50k to operate non-profit endeavors.
- Organized regular workshops teaching 30 or more students how to design & build things using laser cutters, 3D printers, electronic circuitry, & various SDKs.

Education

Electrical Engineering B.S.

University of Washington | *Seattle, WA* | 2015

Internships

- **Software Engineering Intern** (SDK/Java/Node/C#)
 - *Splunk* | *Seattle, WA* | June 2015 - Sept 2015
- **Web Application Intern** (Ruby on Rails)
 - *Tyemill* | *Seattle, WA* | June 2014 - Sept 2014
- **Web Application Developer** (D3)
 - *BlackRock* | *Seattle, WA* | Nov 2013 - June 2014

- **Research Intern** (Python, Java, Weka)
 - *PNNL* | *Richland, WA* | June 2011 - Aug 2011