

DEREK R. ARGUETA

github.com/derekargueta 713-614-2059 darguetap@gmail.com linkedin.com/in/derekarg

Education

Brigham Young University, Provo
B.S. in Computer Science

April 2017 (Inc.)

Work Experience



Tesla

Senior Software Engineer – FleetNet

Feb. 2020 – April 2024
Palo Alto, CA → Austin, TX

- Productionized & launched Envoy as Kubernetes ingress load-balancer for owner-api.teslamotors.com
- Primary developer of mobile app REST API, launching several features including in-app car sharing via one-time links
- Led upgrades from Rails 4.2 (2014) to latest Rails 7.1 and Ruby 2.4 (2017) to latest Ruby 3.1 across 5 applications
- Designed & implemented Kafka-based signed protocol to enable any team to publish mobile push notifications
- Implemented authentication middleware to support mobile app migration to JWT auth tokens
- Debugged & addressed API performance bottlenecks including coalescing Redis connections, moving long-running work to background processes, adding MySQL indexes, and parallelizing internal API calls bringing p90 latency to < 1 second
- Other R&D work relating to vehicle software still pre-release and under NDA



Pinterest

Site Reliability Engineer – Traffic Engineering

July 2017 – Feb. 2020
San Francisco, CA

- Productionized & launched Envoy as ingress load-balancer and Thrift/HTTP “service mesh”
- Developed numerous internal Envoy extensions and contributed to OSS project
- Conducted “Production Readiness Reviews” to ensure newly created services meet SRE standards for launch
- Onboarded a new CDN provider to Pinterest’s multi-CDN architecture
- Led the C++ guild, a volunteer group that works on C++ tooling and build infrastructure
- Migrated CDN & DNS configurations to be managed by Terraform



Pinterest

Software Engineering Intern - Observability Team

June 2016 – Aug. 2016
San Francisco, CA

- Migrated internal monitoring dashboard from Flask Jinja templates to React with D3 visualizations
- Developed alert-building tool to allow testing alert thresholds against historical timeseries data to validate effectiveness



Domo

Software Engineering Intern – QA & iOS Engineering

March 2015 – Feb. 2016
American Fork, UT

- Designed & implemented UI automation framework for Angular, improving test coverage by ~30%
- Wrote several Python scripts to improve analytics for beta feature usage
- Integrated 1Password extension on the iOS app



Verisage

Software Engineering Intern

Feb. 2014 – March 2015
Provo, UT

- Designed, implemented & shipped multiple full-stack iOS/web applications with a Django (Python) backend
- Completed projects within budget while achieving over 90% test coverage
- Assisted junior developers with Python/Angular programming & DevOps tasks

Skills

Proficient: Go, C++, Ruby, Python, JavaScript, Bash

Familiar: Lua, Rust, Java, Swift, Objective-C, Angular/React

Primary Focus: traffic engineering, distributed systems, L4-L7 networking, end-to-end performance, large-scale web services

Notable

- Author & current code-owner of Envoy OAuth2 HTTP extension
- Speaker at EnvoyCon 2018 and KubeCon EU 2020 Keynote speaker
- Undergraduate research – “A Quantitative Study of the Deployment of DNS Rate Limiting” ICNC 2019
- Founder of Brigham Young University’s ACM hackathon while CTO of BYU ACM
- Eagle Scout