# Taylor Wrobel

Plava Vista. CA 90094

□ recruiting@wrobel.dev • in taylorwrobel • □ twrobel3

# **Experience**

Apple, Inc. Culver City, CA

Software Engineering Manager

March 2019-Present

- o Managing the Platform Test Infrastructure team, a small team focused on providing world class internal tooling within the testing domain to developers across Apple
- o Leading development of multiple systems, including a test result data store, email templating service, and BDD style automation test framework
- Meeting with customers to assess needs and feature demand, and structuring product roadmap accordingly
- o Engaging in cross functional and company wide initiatives to improve the culture around producing quality software

Apple, Inc. Cupertino, CA

Software Engineer

April 2016-March 2019

- o Lead development of a large scale service responsible for the storage, aggregration, and visualization of test results
- o Improved performance of critical path operations by over an order of magnitude through data schema, system architecture, and business logic improvements
- o Implemented distributed tracing, monitoring, and alerting for applications within the team's domain
- o Designed a new major version of the API to improve consistency and performance and organized its rollout

#### Aurora Technology, Inc.

San Francisco, CA

CTO and Lead Engineer

September 2014-April 2016

- Founding member of a team working to bring non-predatory automated lending to developing countries
- o Designed and implemented a micro-service architecture with focus on scalability, security, and data consistency
- Lead a team of 5 other engineers in writing and deploying a scalable financial services platform
- o Enforced good coding practices via required code reviews, documentation, and unit and integration testing

# **Palantir Technologies**

Palo Alto, CA

Simulation Software Engineering

May 2013-September 2014

- Worked with members of the SSE team to address issues of continuous code delivery and code quality via automation
- Lead development on an automated system to validate integrity and completeness of production data
- o Maintained and improved the front-end automation regression tests and infrastructure for the Java client

#### **Palantir Technologies**

Palo Alto, CA

Simulation Software Engineering Intern

May 2012-May 2013

- Created an internal tool to oversee and manage a cluster of virtual machines used for UI testing
- o Improved core testing infrastructure and efficiency through modifications made to architecture and implementation

# **Highlighted Projects**

**Test Result Store** Cupertino, CA

Apple, Inc.

- o Tech stack included Node is at the application layer, Cassandra for primary data storage, Redis for caching and eventing, and Blob storage for large file storage
- o Scaled service up to 200M assertions ingested per week (250x increase from the time I joined)
- Supported both traditional unit and integration tests, as well as synthetic monitoring test results
- o Integrated with a mix of OSS and proprietary systems for logging, tracing, app-to-app communication, and authentication

# Highlighted Projects (cont.)

Authentication Proxy Cupertino, CA

Apple, Inc.

- o Go HTTP reverse proxy to transparently handle user authentication against Apple's internal authentication system
- o Individually authored during nights and weekends, and voluntarily submitted for information security review
- o HMAC signing of user data with mechanisms to mitigate MITM and replay attacks
- o Feature rich, including multi-tier caching, rate limiting, tracing, multimodal auth support, logout mechanisms, etc.
- 4th most starred repository on the internal Github Enterprise instance (2nd most starred application, most starred individually authored)
- o Actively used by various production and non-production use cases across the company

### **Education**

# Georgia Institute of TechnologyAtlanta, GABachelor of Science in Computer Science2009–2013

## **Programming Languages and Tools**

Proficiency		Working Knowledge	
o Node.js	o Java	<ul> <li>HTML and CSS</li> </ul>	<ul><li>Groovy</li></ul>
o Go	<ul><li>OpenSSL</li></ul>	o Bash	<ul><li>Python</li></ul>
o Git	o SQL	o C/C++	o latex

### **Skills**

Distributed Systems Concepts: Raft, Paxos, CRDTs, CAP/PACELC, 2 Phase Commit

**Data Structures**: Lists, Trees, Graphs, Hash Tables/Maps, Hash Chains, Heaps, Concurrent Data Structures

Algorithms and Paradigms: Graph Theory, Sorting Algorithms, Concurrency (CSP, Shared Memory, Callbacks)

Data Systems: Cassandra, CockroachDB, Redis, NATS, PostgreSQL, Apache Kafka, SQLite

**DevOps Platforms**: Kubernetes, Jenkins CI, AWS (EC2, ElasticBeanstalk, RDS, SQS), Zipkin, Splunk, ELK (Elastic-Search, Logstash, Kibana)

Managerial: Nonviolent Communication, Implicit Bias Awareness, Behavioral Interview Experience, Inclusion & Diversity