

Curtis W. Fenner

Resume: curtisfenner.com/resume

GitHub: github.com/CurtisFenner

Email: cwfenner@umich.edu

EDUCATION

University of Michigan College of Engineering Ann Arbor, Michigan. 2014 – 2018

- » Computer Science B.S.E. with minor in Mathematics. 4.0 GPA — Dean's List
- » **Selected Coursework**
 - » Distributed Systems (Winter 2017)
 - » Graduate Programming Languages (Fall 2017)
- » Instructional Aide for Distributed Systems (Fall 2017)
- » 2017 ACM ICPC World Finalist

EXPERIENCE

Square – Software Engineer Atlanta, Georgia. 2018–present

- » Writing Java code for a service in Square's public API to accept and manage orders that appear in Square POS and dashboard.

Qualtrics – Software Engineering Intern Seattle, Washington. Summer 2017

- » Wrote Scala code and used Elasticsearch as member of data platform team
- » Redesigned a data aggregation feature after discovering failure conditions in existing implementation
- » Investigated the use of Elasticsearch for log management and indexing additional response information

Qumulo – Software Engineer Intern Seattle, Washington. Summer 2016

- » Wrote C and Python code for distributed filesystem as member of performance team
- » Developed sharding of deleted file space reclamation to double reclamation rate
- » Eliminated lock contention in a multithreaded cache to reduce file operation latency
- » Implemented allocation changes to allow significantly faster metadata operations

Square – Software Engineer Intern San Francisco, California. Summer 2015

- » Wrote Go and JavaScript as member of public API team
- » Optimized and refactored public API server to halve latency
- » Wrote backend code in Go for the second version of Square's public API

PROJECTS & SKILLS

Computer Programming

Have programmed for 10+ years with a variety of technologies

- » Scala » C » Lua » HTML + CSS » Python
- » Go » C++ » Java » JavaScript

WeBWork Proof Checker

- » Designed and built an interface that verifies simple natural deduction proofs for students learning logic
The checker manipulates symbolic representations of mathematical statements and verifies the steps taken in a formal, two-column proof.
- » <http://curtisfenner.com/prove>

Smol Programming Language & Compiler

- » Designing and implementing a toy programming language and compiler that includes statically checked types and functional correctness assertions.