

Curtis W. Fenner

Resume: curtisfenner.com/resume

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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**
 - » Compiler Construction (Winter 2017)
 - » Distributed Systems (Winter 2017)
 - » Instructional Aide for Distributed Systems (Fall 2017)
 - » 2017 ACM ICPC World Finalist
 - » Advanced Programming Languages (Fall 2017)
 - » Intro. Operating Systems (Fall 2016)

Experience

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

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

Projects & Skills

Computer Programming

Programmed for 10+ years on many various team and personal projects and three software engineering internships

- » 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, generics, and interfaces.