

CONTACT
INFORMATION

15 Connecticut Ave
Somerville, MA 02145

rcoh@rcoh.me

EDUCATION

Massachusetts Institute of Technology, Cambridge, MA

June 2013

Computer Science and Engineering (6–3), *GPA*: 4.9/5.0

Relevant coursework:

Distributed Systems Engineering (6.824)	Computer Systems Security (6.858)
Performance Engineering (6.172)	Operating System Engineering (6.828)
TA for Computer Language Engineering (6.035)	Advanced Datastructures (6.851)

WORK
EXPERIENCE

Self Employed, Redwood City, CA

Freelance Software Engineer, February 2016 — Present

- Consult on key scalability and architecture decisions
- CTO/Senior engineer for hire at small startups (architect/implement MvP, design interview & engineering process process, etc.)
- Join companies for 1-3 months to finish high-value projects.
- Recent Projects:
 - + [Angle grinder](#), a popular CLI app written in Rust for log analytics
 - + [Crossword.Tools](#), a tool for creating Newspaper-quality crossword puzzles. Core fill algorithm written in Rust, compiled to WASM.
 - + Architect, code and deploy a new webhooks delivery architecture that reduced latency by 60x
 - + Design a domain specific language that compiles to Spark
 - + More projects at <https://rcoh.me/hire-me>

Sumo Logic, Redwood City, CA

Software Engineer Lead, February 2014 — February 2016

- Lead search performance team to improve search latency and throughput
- Developed optimizer for the Sumo Logic query language
- Authored [open source ElasticSearch library](#)
- Scala, Java, MySQL, Elasticsearch, Cassandra, Lucene, AWS

Filepicker.io, San Francisco, CA

Principal Engineer, January 2013 — January 2014

- Scaled highly available service to >300QPS while reducing the number of servers required
- Designed and implemented protocol to enable high bandwidth data transfer between sandboxed iOS Apps
- Optimized use of MongoDB, Nginx, Haproxy, uWSGI
- Python, Node.js, iOS, MongoDB, Postgres, Haproxy, Nginx, uWSGI, Flask, EC2, S3

Sumo Logic, Mountain View, CA

Software Engineer Intern, Summer 2012

- Worked with team to design / implement continuous query engine capable of processing 1TB data / day on a c1.xlarge
- Designed novel distributed, approximate, streaming algorithms for data processing
- Scala, MapReduce, AWS, Java, Spring, HornetQ

Google, Seattle, WA

Software Engineer Intern, Summer 2011

- Improved search quality and the comment panel user-experience on Chrome Web Store
- Java, Javascript / HTML / CSS, Python, C++, MapReduce

SKILLS

Python, Rust, Scala, Java, Go, Node.js / ES6 / React, (my/Postgre)SQL, Cassandra, Elasticsearch

INTERESTS

rock climbing, paragliding, backpacking, cello, baking bread