

# JIMMY MILLER

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## WORK EXPERIENCE

**SHOPIFY (AUG. 2022-MAY 2023)**

### Staff Compiler Engineer

- Worked on cutting edge JIT Compiler for Ruby (YJIT)

**CISCO - THREAT RESPONSE (MAY 2021-AUG. 2022)**

### Technical Leader

- Increased performance of security investigation engine 10-100x
- Lead and architected efforts for analyzing large scale security events
- Worked with partners across teams to ensure org-wide availability of data

**KEVEL (JAN. 2019-MAY 2021)**

### Senior Software Engineer

- Revitalized reporting system including infrastructure, db, deployment, backend and frontend.
- Enabled processing of 30+ billion requests per month.

**HEALTHFINCH (JAN. 2018-JAN. 2019)**

### Senior Software Engineer

- Used rules engine to encode medical protocols for patient care.
- Developed custom visualization for medical recommendation templating.

**NEXTGEAR CAPITAL (JULY 2017-DEC. 2017)**

### Senior Software Engineer - Contractor

- Built neural network based document processing system.

**TRABIAN TECHNOLOGY (APRIL 2016-JULY 2017)**

### Lead Software Engineer

- Lead all development efforts from prototype to production
- Performed large-scale code migrations utilizing ast rewriting to modernize client codebases.

**NEXTGEAR CAPITAL (OCT. 2014-APRIL 2016)**

### Senior Software Engineer

- Developed microservice architecture to support monolithic application.
- Led workshops, gave presentations, and created internal discussion group.
- Integrated application into corporation-wide distributed system.

**Additional experience available upon request**

## TECHNOLOGIES

- AWS, Clojure, ClojureScript, Docker, GraphQL, Haskell, Idris, Java, JavaScript, Python, React, Redshift Rust, Snowflake, SQL

## INTERESTS

- Analytic Philosophy
- Distributed Systems
- Programming Language Theory
- Compilers

## SPEAKING

- Cohost of The Future of Coding Podcast
- Talks:
  - Meander: Declarative Explorations at the Limits of FP
  - Paradigms Without Progress: Kuhnian Reflections on Programming Practice

## READINGS I ENJOY

- "Pygmalion: A Creative Programming Environment" by David Canfield Smith
- "On Understanding Data Abstraction, Revisited" by William R. Cook
- "Simple and Effective Type Check Removal through Lazy Basic Block Versioning" by Maxime Chevalier-Boisvert
- "Programming as Theory Building" by Peter Naur
- "Lazy Evaluation of Transactions in Database Systems" - Jose M Faleiro, et al.

*"We make not just to have, but to know" - Alan Kay*