

JIMMY MILLER

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WORK EXPERIENCE

CISCO - THREAT RESPONSE (MAY. 2021-PRESENT)

Technical Leader

- Increased performance of security investigation engine 10-100x
- Leading and architecting efforts for analyzing large scale security events
- Provide guiding vision for future capabilities of our security platform
- Work 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

- Led workshops, gave presentations, and created internal discussion group.
- Developed microservice architecture to support monolithic application.
- 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