

Daniel J Raine

Sr. Software Engineer

Contact

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About

Senior Software Engineer with a strong background in backend development, CLI tooling, and infrastructure optimization. Experienced in leading teams, designing scalable systems, and implementing observability and DevOps solutions. Seeking backend roles with a growing interest in Rust and systems programming.

Work

Moderna

Mar 2017 – Present

Sr. Software Engineer

Over the last several years, I have worked across every stage of the software development lifecycle – from gathering business requirements, translating them into technical designs, prototyping, building, delivering, and maintaining the application through changing business needs and a growing userbase.

I have contributed to a variety of teams within Moderna's informatics department – serving our research scientists, technical development engineers, and global partner institutions by building web applications tailored to their needs and integrating their data within our app ecosystem.

Over the past year, I have changed my career path to focus on DevOps, observability, and infrastructure to improve our reliability, fault-tolerance, and performance.

Highlights

- Technical Lead - Led two cross-functional engineering teams by providing mentorship, guiding technical decisions, and architecting our codebase. Helped prioritize work, maximize developer productivity, and improve code quality while empowering junior developers to do the same.
- Observability - Implemented company-wide observability, tracing, and application performance monitoring globally across manufacturing sites, labs, and informatics systems using Dynatrace. Built dashboards and set up alerting and response protocols through PagerDuty.
- mRNA Ordering App - Designed and built a customer-facing mRNA ordering application for our global partners.
- Development Hub - Built out our Technical Development manufacturing process

tracker.

- BLAST - Optimized performance and reliability of our cloud-based compute resources for running BLAST searches.
- CLI - Built CLI tools using Rust and Python for streamlining interaction with our Informatics app ecosystem.
- Research Informatics - Gathered requirements from scientists and worked with PMs to build a suite of research tools.

Education

Brandeis University

Dec 2012 - Dec 2013

Neuroscience

Masters

University of Illinois (UIUC)

Dec 2007 - Dec 2011

Molecular & Cellular Biology

Bachelors

Skills

Full Stack Web Dev

Rust Typescript Javascript
Node Angular CSS HTML

DevOps

Docker AWS ELK stack
Cloudflare Dynatrace

CLI Tooling

Python Rust OClif

Data Engineering

PostgreSQL SQLite Tableau
Looker

Interests

Triathlon

Running Cycling Swimming

Traditional Folk Music

Contra dance Fiddle tune sessions
Bluegrass