

DANIEL NEPHIN

Toronto, Canada

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Experienced software engineer passionate about building reliable distributed systems that benefit people. Obsessed with software quality. Frequent contributor and maintainer of open source projects. Interested in lightweight asynchronous engineering process, using models to understand and explain complex problems, and helping peers advance their technical skills.

Infra Technologies

2022-2023

Software Engineer (remote)

- designed and built an open source SaaS product for using OpenID Connect capable identity providers to authenticate and authorize access to SSH servers and Kubernetes clusters.

HashiCorp

2020-2022

Senior Software Engineer - Consul Core Team (remote)

- discovered and fixed CVE-2021-37219 a high severity privilege escalation vulnerability that had existed for 5+ years
- designed and implemented a major addition to Consul's multi-tenancy features to facilitate the adoption of Consul as a service mesh
- led a project to improve observability by adding new metrics and logging, and building a path toward distributed application tracing
- wrote the first version of the HashiCorp Go Language Style Guide
- created a community pull request review process which resulted in significantly increased community engagement and contributions

CircleCI

2018-2020

Senior Staff Software Engineer - Execution Team (remote)

- as technical lead for the execution and compute platform I documented existing legacy systems that had frequent reliability problems, and created a roadmap for fixing the architectural problems underlying the instability.
- redesigned legacy systems to improve reliability and observability
- led a project to improve autoscaling, savings millions on compute cost over the year
- created the first operational runbooks for handling on-call operations

Docker Inc

2015-2018

Open Source Software Engineer - Core Team (remote)

- core contributor and maintainer of Docker (Engine)
- core contributor and maintainer of Docker Compose

Yelp Inc

2011-2015

Software Engineer - Infrastructure (remote)

- design of service oriented architecture platform
- design of automated testing and continuous deployment systems
- performance analysis and optimization of web stack
- design and analysis of web scraper detection system
- large scale data processing using MapReduce on Amazon EMR
- hiring interviews, phone screens, code tests, and résumé screening
- mentoring interns and junior engineers

Yellow Pages Group

2010-2011

Telus Consultant: Computer Systems Analyst

Mate1.com Inc

2007-2010

Technical Lead (previous roles: Software Engineer and Quality Assurance Specialist)

Computer Engineering Technology - Computing Science, 3 year Diploma, Algonquin College, Ottawa, completed 2007