

Simon Larsén

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ABOUT

Software engineer with a deep affinity for back end development, system design, cloud infrastructure, Linux and software security. Devoted to open source development, continuous learning and knowledge-sharing. Experienced in mentoring and teaching roles across academia and industry.

EDUCATION

KTH

MSc IN COMPUTER SCIENCE

2018-2020 | Stockholm, Sweden

Specialization:

Programming languages and software engineering

KTH

BSc IN COMPUTER SCIENCE

2015-2018 | Stockholm, Sweden

LINKS

GitHub:// [slarse](#)

LinkedIn:// [simon-larsen](#)

Blog:// [slar.se](#)

SKILLS

TECHNICAL

Languages

Python • Rust • Go • Kotlin • Java

TypeScript • SQL

Technologies

AWS • GCP • Linux • Git • Jenkins

Docker • Kubernetes

Practices

Automatic testing • CI/CD • TDD

NON-TECHNICAL

Public speaking • Teaching

Mentoring

EXPERIENCE

QUANDIFY | SOFTWARE ENGINEER

Aug 2023 - Now | Stockholm, Sweden

- Development and operations of B2B APIs and consumer portal and mobile app for smart water devices (IoT)
- Microservices hosted in GCP
- Tech: GCP, Node.js, TypeScript, React, Kubernetes, Docker, GitLab, PostgreSQL

WORLDLINE (VIA HIQ) | SOFTWARE ENGINEER CONSULTANT

Aug 2021 - Aug 2023 | Stockholm, Sweden

- Development and operations of B2B reporting portal with thousands of concurrent users
- Microservices hosted in AWS
- Tech: AWS, Python, Flask, Pytest, React, Docker, Jenkins, PostgreSQL, Kibana

KTH | RESEARCH ENGINEER

Oct 2020 - Aug 2021 | Stockholm, Sweden

- Developed software for automatic program repair (APR)
- Worked on backing infrastructure for CI/CD
- Tech: Java, Kotlin, TypeScript, Maven, Jenkins

STOCKHOLM PEACE RESEARCH INSTITUTE | FREELANCE FULL

STACK DEVELOPER

2017 - 2020 | Stockholm, Sweden | Part time

- Designed a database and implemented an accompanying admin web app
- Tech: MariaDB, Python, Flask, Docker

KTH | TEACHING ASSISTANT/AMANUENS

2016 - 2020 | Stockholm, Sweden | Part time

- Worked as a lab and teaching assistant in the year-long introductory CS courses
- Taught Java, Python and Go along with Git and Bash
- Developed course materials and tooling

CERTIFICATIONS

2021 AWS Certified Developer - Associate

COMMITMENTS

2022 - 2023	HiQ Mentorship Program	Mentor
2021 - 2023	HiQ LEAP	Taught Git for professionals
2020 - 2021	KTH	Mentor

PUBLICATIONS

- [1] K. Etemadi Someoliayi, N. Y. M. Harrand, S. Larsén, H. Adzemovic, H. Luong Phu, A. Verma, F. Madeiral, D. Wikstrom, and M. Monperrus. Sorald: Automatic patch suggestions for sonarqube static analysis violations. *IEEE Transactions on Dependable and Secure Computing*, pages 1--1, 2022.
- [2] S. Larsén, J.-R. Falleri, B. Baudry, and M. Monperrus. Spork: Structured merge for java with formatting preservation. *IEEE Transactions on Software Engineering*, 49(1):64--83, 2023.