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OVERVIEW

I started out my journey as a DevOps engineer focusing on systems architecture, network services, and the SDLC. I quickly realised my passion correlates more with software engineering and academia and therefore made a career transition. My objectives include joining WG14 and WG21 standardisation working groups and the Rust language team, devoting more time to open-source projects (especially FreeBSD and illumos), and academically studying mathematics.

SKILLS

- Fluent in C, C++, and Rust - IPC, Concurrency, and Algorithms.
- Have a deep understanding of UNIX operating systems design.
- Deeply experienced with TCP/IP and networking protocols.
- Fluent in L^AT_EX for day-to-day technical and scientific documents.
- Have a good understanding of Agile development methodologies.

PROFESSIONAL HISTORY

Khallagh Borhan Inc.

Software Engineer

full-time

Mar. 2021 - May. 2021

- Returned to the research and development team to design and develop a DDoS protection suite, and we successfully delivered and deployed it for the North-South traffic.
- Did not have enough budget to work on high availability and improve anomaly detection, but developed a simple protocol to leave enough space for further development.
- Mainly worked with BSD sockets, BPF devices, Netmap, ioctl operations to control the behaviour of the packet filter, and SQLite API.

Lead DevOps Engineer

Apr. 2019 - Feb. 2020

- Led a team of 3 junior engineers and successfully architected and delivered the requested platform cluster with my team.
- Trained engineering department personnel to use new tools and adapt to the new development process.
- Automated build process and sped up deployments by 80% by implementing continuous tests and developing CI/CD pipelines.
- Trained NOC personnel to understand metrics and maintain the platform.
- Also developed an agentless cluster provisioner and manager to facilitate the scaling and maintenance procedures.

DevOps Engineer

Sep. 2016 - Dec. 2018

- Rearchitected the infrastructure of a multimedia streaming platform and improved the overall performance by 80% and achieved 99.9% uptime.
- Detected improper reference model in the application and reduced memory usage by 75% after resolving memory leaks.
- Increased delivery velocity by 70% and removed bureaucratic interruptions by introducing continuous tests and building a sustainable agile culture.
- Got promoted thrice and worked on 4 different projects, and was known for working comfortably under pressure.
- Designed and set up monitoring and alerting systems for NOC.

Bidopin

DevOps Engineer

full-time

Dec. 2017 - Mar. 2019

- Helped the engineering department to bounce back from a pivotal setback caused by the lack of a trusted DevOps culture and Business-IT alignment.
- Built a rational roadmap and bridged the gap between IT and business decision-makers by defining mutual objectives and reforming expectations.
- Trained colleagues to understand git workflows and to make the most of version control systems.
- Defined release, change, versioning, and upgrade policies.
- Architected an infrastructure to ensure high availability.
- Consolidated database and reduced costs by 70%.

Volunteer Work

- Organised *Iran BSD User Group (IRBUG)* from *April 2019* to *January 2021*. Used to run workshops and hold monthly meetings to gather around and share knowledge.
- Translated *HTTP3-Explained* from English into Persian.