

Mohammed Suhail Rafeeq V

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PROFESSIONAL EXPERIENCE

Software Developer

Sep 2020 – Dec 2023

SOTI [🔗](#)

Kochi, India

- **Led the design and execution of key initiatives**, including the migration of .NET APIs and the development of new features for the MobiControl Linux and Windows Agents.
- **Developed and evaluated proof of concepts** to assess the viability of potential solutions, driving innovation and supporting informed decision-making.
- **Actively participated in design, code, and compliance reviews**, ensuring adherence to industry standards and best practices.
- As a member of the **Core Performance Development team**, contributed to analysis and critical performance enhancements for supporting **1 million devices** on the SOTI MobiControl platform.
- Designed and implemented caching layers for read-intensive services, achieving a **3-4x reduction in tail latency**.
- **Conducted .NET CLR/C++ training and mentoring sessions** for new hires, fostering skill development and ensuring seamless onboarding.
- **Honored as one of the top 10% of employees** in the SOTI PEAK (MVP) 2022 program, recognizing exceptional performance and contributions.

Software Developer Intern

Jun 2019 – Jul 2019

Zinfog Codelabs

Kozhikode, India

- Worked on the **design and implementation of a developer tool** to generate Django backend code.

SKILLS

Software Development

Data Structures and Algorithms, Object Oriented Design, Database Systems and Internals, Operating Systems, Distributed Systems, Software testing and debugging, Secure code review, Reverse Engineering.

Programming/Scripting Languages

Rust, C/C++, Go, C#, Python, Shell Scripting, Typescript, SQL.

Tools/ Technologies

Git, Containers, Kubernetes, Cloud Services, Perf/Debug Tools, TLA+, Valgrind, .NET, Angular, WebAssembly, eBPF, Linux Kernel.

PROJECTS

NaadanDB [🔗](#)

2024

An experimental hybrid relational database

- A relational database written in Rust, targeting OLAP and OLTP workloads.
- This project aims to **experiment with different database development techniques** to support high performance hybrid workloads.

DesignSphere [🔗](#)

2023

Open-source multi-cloud infrastructure design tool.

- A **drag-and-drop UI** to design and deploy multi cloud architecture with ease.
- Uses **Pulumi Go SDK** to interact with cloud providers.
- Currently supports GCP and AWS cloud providers.

CloudBnB [🔗](#)

2020

A distributed managed cloud platform.

- Provides managed cloud services like **Cloud Storage, Function as a service (FaaS)** and **Serverless** apps.

Rusty-Fuzzer [🔗](#)

2019

A coverage guided evolutionary Fuzzer written in Rust.

- It uses the **Sanitizer Coverage** feature from LLVM compiler infrastructure for instrumenting the application binary for fuzzing on Linux platform.

EDUCATION

Bachelor of Technology, Computer Science and Engineering

2016 – 2020

School of Engineering, CUSAT. (GPA- 8.4)

Kochi, India