ALEN ANTONY

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SKILLS

- Programming Languages
  - **Python** - Scripting and automation
  - **Java** - Back end Applications
  - **Rust** - System utilities
  - **Javascript** - Web Applications
- Experienced in working with **Linux** command line
- Familiar with deployment of various tools like NextCloud, Wireguard, Tailscale, Nginx and technologies like **eBPF**

EDUCATION

CLASS XII CBSE

Saraswathi Vidyanikethan Public School

2019 - 2020

Score : 96.4%

BTECH IN COMPUTER SCIENCE ENGINEERING

National Institute of Technology,Calicut

2020 - 2024

CGPA : 9.01

PROFILE

Passionate software engineer with experience in full stack software development. Well organized and self motivated individual. Enthusiastic learner. Loves to contribute to open source projects and work on low level systems.

PROJECTS

IROH-CLIPBOARD

- P2P cross platform clipboard syncing tool made with **Rust**
- Used the iroh crate for P2P connections and tokio for asynchronous execution

SYSCOLLECT

- A system metrics collection tool made with **Rust**
- Ideal for building self-hosted monitoring solutions or feeding metrics into time-series databases like InfluxDB

SIGNAL PROTOCOL IMPLEMENTATION

- Implementation of the Signal Protocol used for end to end encryption in messaging apps like Whatsapp, Signal etc. in **Python**
- Learned about X3DH and Double Ratchet algorithm

FLOW RADAR IN EBPF

- A network monitoring tool using extended Berkeley Packet Filter (**eBPF**) built in **C**
- Learnt about **eBPF** and eXpress Data path (**XDP**)

EXPOS (EXPERIMENTAL OPERATING SYSTEM)

- A simple Operating System that supports paging and swapping
- Learned about various OS concepts like process scheduling, synchronization etc.

EXPL (EXPERIMENTAL LANGUAGE)

- A simple compiler for a programming language that supports Object Oriented features built in **C**
- Learned about tools like **lex** and **yacc**

OTHER ACTIVITIES

OPEN SOURCE CONTRIBUTIONS

- Contributed to the uutils project which is the Rust rewrite of the GNU coreutils project
- Contributed to the documentation for the iroh project, a P2P framework in Rust
- Deployed NextCloud instance for FOSSCELL, the free and open source software community of my college

PERSONAL HOME LAB

- Linux based environment for media storage and sharing as well as a place to experiment and learn from.

EXPERIENCE

SOFTWARE ENGINEER - WELLS FARGO (12/08/2024 - PRESENT)

- Worked on the Internal Developer Portal for Wells Fargo
- Technologies used - Spring Boot for back end, React for front end
- Wrote automation test suite using Cucumber and Playwright framework

SAP IXP INTERN (15/05/2023 - 14/07/2023)

- Worked with my team to improve test coverage and code quality of the new code.
- Technologies used - Java, Spring Boot, JUnit, Mockito, SonarQube
- Improved code coverage from 0% to 86% and solved various code smells.

STUDENT ADMIN - SOFTWARE SYSTEMS LAB NITC (16/09/2022 - 01/05/2024)

- Host various services on the server to be used by the general student community.
- Provide technical help to students/faculty in the lab.