

Edvin Basil Samuval

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Passionate system administrator with experience in designing, building, and maintaining linux systems. Able to work independently as well as in a team. Skilled in identifying technical issues and resolving them in optimal ways. Has a strong passion for teaching others and sharing technical knowledge. Is also a hobbyist developer with interest in systems level programming.

Education

2017 – 2021 **National Institute of Technology, Calicut,**
Bachelors in Computer Science and Engineering

Professional Experience

07/2019 – present **Software Systems Lab, NITC, System Administrator**
Calicut, India Building and maintaining servers and services in the lab

07/2019 – 10/2019 **Where's The Food, Backend Engineer**
Bangalore, India Designing, building and maintaining the backend software for a digital waiter and PoS service.

Skills

Linux Administration

*Bash, Git, Nginx,
MySQL, LDAP,
Saltstack, Ansible*

Rust Lang

*Memory-safe low
level/systems designing
with higher level
application scope*

DevOps

*Familiar with several
tools like docker,
LXC/LXD, and CI
platforms like Jenkins,
CircleCI and Gitlab CI*

NodeJS/Javascript

*Server, desktop, and web
applications*

Network

Administration
*Routing, Switching,
Subnetting, VLANs, and
tools like iptables and
pfsense*

Python

*Scripting, Automation
and Algorithm design*

Virtualization, Baremetal Cloud

*Experienced with Citrix
XenServer (XCP-ng)*

Kubernetes

*Cluster deployment and
management. Familiar
with tools like k3s,
rancher, longhorn and
metallb*

Projects and Works

Software Systems Laboratory, National Institute of Technology,
Building an on-premise virtual infrastructure, and management of various services

- Virtualizing services in the lab from bare-metal
- Separating institute applications from the student projects by configuring VLANs and sub-networks, and enforcing firewall rules using pfsense
- On-demand VM instance creation for student projects
- Optional load balancing for high availability
- Backups with continuous replication
- Managing student accounts with LDAP

Semester Registration, NITC, Technical Incharge

Deploy, and manage the software used for registering students to each semester. Point of contact for all technical issues. Responsible for coordinating the process with the Student Affairs Council.

Other Relevant Works, for clubs in NITC

- In charge of the infrastructure for **FOSSCell, NITC** including their identity management system, git server (Gitlab), event streaming systems, etc.
- Technical Head for the **Indian Society for Technical Education, NITC Students Chapter**