

K Gopal Krishna

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Summary

- Linux System Administrator and an aspiring Devops
- Interest and experience in infrastructure, systems and open source development
- Bash, POSIX sh, Go, Python, C, Docker, Podman, Kubernetes, Nix, Sed, Awk

Experience

Debian

Google Summer of Code Intern – **systemd unit translator** | May 2020 – August 2020

- Read up on the documentation of various init systems, their functioning and the philosophy behind it.
- Figure out how to mimic equivalent functionality in OpenRC after reading up on systemd's services, sockets and timers.
- Implement said functionality in a portable bash script, leveraging multiple tools to make up for systemd's monolithic functionality and with minimal dependencies on external tools.

IDS Logic

Junior Devops | May 2019 – August 2019

- Updated and managed previously setup infrastructure with CentOS, Docker.
- Wrote documentation for the various moving parts.
- Improved Moodle deployment with possibility of automatic updates through watchtower and uptime monitoring through an external service.
- Migrated, updated and managed a GitLab EE instance for internal development.

IDS Logic

Junior Devops | May 2018 – August 2018

- Learned about various tools for automation along with web scraping in Python
- Learned about and used Docker to containerize their infrastructure.
- Gitlab, Moodle, MariaDB were among the services that were containerized.
- Deployed Portainer CE for an easier visual overview for the team lead.

Projects

- **systemd-unit-translator** – a portable, one file bash script for converting systemd units to OpenRC scripts
- **arsh** – Arch GNU / Linux installation script written in POSIX sh with minimal external dependencies
- **bash-helpers** – a bunch of useful functions for scripting in bash.
- **sh-helpers** – a bunch of useful functions for scripting in POSIX sh

Education

International Institute of Information Technology, Bhubaneswar

August 2017 – August 2021 | Bachelor in *Information Technology*

6.4 CGPA

DAV Unit 8, Bhubaneswar

March 2015 – March 2017 | Higher Secondary School

86.4% CBSE Board

Loyola School, Bhubaneswar

March 2011 – March 2015 | Secondary School

91.16% ICSE Board