





AAKASH HEMADRI

Looking to learn as much as I can. Arch Linux | Rustling | Bash

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EXPERIENCE

Associate Software Engineer

KLA+

 August 2022 – Present  Chennai, India

- Charged with deploying SMARTS (A DL inspection & review solution) on Kubernetes w/Helm delivered as RPM packages.
- Required to optimize, create and test images on K8s from the current docker-compose orchestration.
- Collaborated with members cross-division to deliver SMARTS for LS-SWIFT's Tools

Helm Kubernetes Docker OCI RPM Bash

Intern Co-Op Technical

KLA+

 December 2021 – July 2022  Chennai, India

- Tasked to perform a complete migration from IBM RTC to git VCS
- Explored the complete expanse of the SWIFT codebase.
- Collaborated with members across teams to troubleshoot issues during migration

Artifactory NuGet Python Rational Team Concert

Intern Co-Op Technical

KLA+


 May 2021 – July 2021  Chennai, India

- Evaluated Singularity as an ad-hoc replacement to Docker in terms of performance and usage

High Performance Computing Singularity Docker

Software Intern

KLA+

 May 2020 – December 2020  Chennai, India

- Tasked to validate, prototype and test a distributed data pipeline.
- Participated a collaborative effort to modernize the current monolithic software stack.
- Team participated and won Judge's Special Mention for an internal KLA Hackathon " " " " .

Parallel Computing Java Apache Kafka Apache Spark

Web Developer & Editor

The Bridge - The Official Online Magazine of PSG Tech

 Jan 2018 – Present  Coimbatore, India

- Modernized and migrated from Wordpress CMS to Ghost CMS to facilitate improved online operation of the magazine.

SKILLS

Scripting & Programming

- Bash, Python. C/C++, Rust, Java
- GNU Make, gdb, valgrind, CMake
- grep, awk, sed, systemd, cron, rc
- rpm, yum, pacman, apt

DevOps and Virtualization

- Docker, Docker-Compose, Kubernetes
- ESXi, Azure, GCP, Digital Ocean
- Github Actions, Azure Pipelines, Travis, Jenkins

Web/App Development

- Javascript, Sass, PHP, Python
- Bootstrap, jQuery, D3.js, React.js, Django
- Apache, Nginx, Wordpress, Ghost CMS
- Flutter, Dart

Parallel Computing

- Java, Scala
- Apache Spark, Apache Kafka

Soft skills

- Communication, Interpersonal skills, Problem Solving.

OPEN SOURCE

Contributed to 'influxdb-ioX'

https://github.com/influxdata/influxdb_iox

- Authored PR's for a influxdb rust client for v2 API support

Maintain & test packages

Arch user repository

- <https://aur.archlinux.org/packages/microsoft-edge>
- <https://aur.archlinux.org/packages/gk6x-bin>

GnuCashX

<https://github.com/aakashhemadri/GnuCashX>

- GnuCashX is a cross-platform mobile app for the GnuCash Accounting Software

Internship Management @ DAMCS

<https://damcs.github.io/stepping-stone>

- Edit and curate content submitted to the online magazine at PSG Tech.
- Participate and work on recruitment, engagement and content generation in the Editorial Team of The Bridge.
- Reporting and interviewing alumnus, their startups and work for the benefit of the student body.

PHP Apache Nginx Wordpress Ghost CMS
Javascript/CSS Writing Editing Interviews

Leader & Volunteer

U&I - Non-formal education for underprivileged women and children

📅 July 2018 – April 2020 📍 Coimbatore, India

- U&I is a volunteer-driven charitable organization. We teach underprivileged school children.
- As class head at U&I, I worked with my peers in the capacity of recruiting, training and managing volunteers in addition to managing a class of 40 children.

Leadership Teamwork Community

EDUCATION

MSc. Software Systems

PSG College of Technology

🎓 Score: 8/10

📅 June 2017 – July 2022 📍 Coimbatore, India

C/C++14 OOP Data Structures Computer Organization
Unix Architecture Microprocessors and Embedded Systems
Operating Systems Principles of Compiler Design

Higher Secondary in Computer Science

Chennai Public School, Annanagar

🎓 Score: 9.66/10

📅 April 2015 – May 2017 📍 Chennai, India

C/C++11 Pure Sciences Computer Science Robotics

ACHIEVEMENTS



KLA Hackathon 2022

Overall winner in the Developer Experience category, where our team provided a solution for a one-click app to spin up a container with a preferred codebase

Docker VSCode Server Windows Container



Startup Weekend @ CEG, Chennai

Won 2nd place, where the goal was to incubate, market research, prototype and sell an idea to a panel of judges

Teamwork Decision Making Marketing

- Project Sanctioned by the Dept. of Applied Mathematics and Computational Sciences to manage its internship process

Hack[in] for Login @ PSGTech

<https://github.com/damcs/hack-in>

- A reactjs + nodejs website that was hosted at Login 2019 @ PSGTech. A ctf website that challenges its participants through a series of tasks.

xDM-hack

<https://github.com/aakashhemadri/xDM-hack>

- An XDM theme for the X Display Manager

Makefiles

<https://github.com/aakashhemadri/makefiles>

- Where all my makefiles live, and a little more

CERTIFICATIONS

A Beginner's guide to Linux Kernel Development (LFD103)

🌟 [courses/linux/lf103.pdf](https://courses.linux/lf103.pdf)

OTHER INTERESTS

Books Comics Trekking History

LANGUAGES

English
Tamil
Telugu
Hindi
French

