

ADITHYA KRISHNA V SHARMA

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EDUCATION

Jyothy Institute of Technology - VTU

Bachelor of Engineering (B.E) in Computer Science

Aug 2017 - Aug 2021

Bengaluru, Karnataka

WORK EXPERIENCE

Documenso

Dec '23 - Present

Software Engineer - II

Remote

- Revamped and implemented new mobile readers
- Implemented functionality to redirect to a custom URL upon signing
- Implemented IANA timezones functionality
- Implemented workflows for managing GitHub organization
- Improved Railway and Render deployment options using DockerFile

Red Hat

Nov 2021 - Nov 2023

Software Engineer

Bengaluru - Remote

- Promoted to **Software Engineer - L2** from **Associate - L1** for exceptional performance and contributions
- Implemented a feature to request a **remote session** through the frontend UI
- Streamlined and implemented new workflow for the creation of cases, thus enhancing the overall user experience
- Contributed to **CEPH** and **Red Hat OpenShift** and **Ansible**
- Developed a **history feature** catering to scenarios involving **historical data**, similar to Reddit's comments

Red Hat

July 2021 - Oct 2021

Software Engineer Intern

Bengaluru - Remote

- Improved GitLab pipeline speeds by writing custom stages and coverage scripts by **25%**
- Worked on writing unit tests for components using Jest and React Testing Library
- Contributed to **Kong** Service Mesh

Google Season of Docs - WasmEdge

May 2023 - Dec 2023

Open-Source Technical Writer

United States - Remote

- Implemented CI/CD through GitHub Actions with **Caching** and **Job Concurrency**
- Migrated and wrote sections of docs site to docusaurus
- Issue Tracking Overall Progress - [GitHub Tracker](#)

Google Summer of Code - OpenChemistry

May 2023 - August 2023

Open-Source Developer

United States - Remote

- Mentored by and collaborated with **Prof. David R Koes**, University of Pittsburg, on improving [3Dmol.js](#)
- Developed tailored CI/CD using GH Actions for **caching**, and worked on **performance improvements** for the library
- Worked on migrating **loosely typed** JavaScript code to **strictly typed**, TypeScript code
- Accepted Project Details - [Link](#)

Cloud Native Computing Foundation, Meshery

Aug 2021 - Present

Maintainer of Meshery - CNCF Sandbox Project

Austin, Texas - Remote

- Implemented UI to communicate with **Kubernetes APIs** from scratch using ReactJS, Material UI, and NextJS
- Improved and wrote technical docs related to **Service Meshes**, **Envoy Proxy** and **ProtoBuf**
- Improved front-end UI feature facilitating seamless communication with **Grafana** and **Prometheus** dashboards

PUBLICATIONS

IITCEE - Malware Classification using Deep Neural Networks: Performance Evaluation and Applications in Edge Devices **Nov 2023**

- **Conference Article** - Under Review - [Conference Link](#)

ArXiv - Malware Classification using Deep Neural Networks: Performance Evaluation and Applications in Edge Devices **Oct 2023**

- **Pre-print Article**: <https://arxiv.org/abs/2310.06841>

IJRESM - Reinforcement Learning in Real-World Scenarios: Challenges, Applications, and Future Directions **July 2023**

- **Article**: <https://journal.ijresm.com/index.php/ijresm/article/view/2763>

PiCES - A Comparative Study of Real-time Object Detection Systems for Navigation of the Visually Impaired **May 2021**

- **DOI**: <https://doi.org/10.5281/zenodo.4902963>

PROJECTS

VINO: VIN number and Odometer recognition | *Tensorflow, Flutter, Pattern Recognition*

April 2023

- Designed and implemented UI for an odometer and vin recognition app using Figma and Flutter
- Implemented image recognition that was based on text classification and recognition using a standard regex for VIN number and Odometer readings using Tensorflow with an overall accuracy of 95%

Datazip | *Tensorflow, Keras, ReactJS, TypeScript*

February 2023

- Built an end-to-end solution to scan through criminal databases and suggest the closest match to the fingerprint and face data of a criminal using Tensorflow and Keras
- **Unified Data Verification Track Winner** - Karnataka State Police Hackathon

SKILLS

Languages: TypeScript, JavaScript, Python, GoLang, HTML, CSS, Dart, Java, WebAssembly

Libraries/Frameworks: ReactJS, NodeJS, Tensorflow, Jest, Flutter

Databases: MySQL, MongoDB, Firebase

Design: Adobe Photoshop, Illustrator, Xd, Figma

Tools: Kubernetes, Docker, Git, GCP, AWS, JIRA, Confluence, Apache Solr, Apache TomCat, GitHub Actions

CERTIFICATIONS

- **Microsoft Certified: Azure Fundamentals**, Microsoft - [Certificate](#)
- **Linux: Storage Systems**, LinkedIn Learning - [Certificate](#)
- **Programming Foundations: Algorithms**, LinkedIn Learning - [Certificate](#)
- **Programming in C++**, 2 Credit Course, NPTEL - IIT Kharagpur - [Certificate](#)
- **The Joy of Computing Using Python**, 3 Credit Course, NPTEL - IIT Kharagpur - [Certificate](#)
- **Web Design for Everybody**, University of Michigan - [Certificate](#)
- **AWS Fundamentals**, Coursera - [Certificate](#)

HONORS AND AWARDS

- Unified Data Analytics Track, **Winner - \$1200** - Karnataka State Police Hackathon - [Project Link](#)
- **Red Hat Giveback Award: Gold Star**, 2022 for contributing to OSS, delivering talks, and giving back to the community
- **GitLab Q3 2022 Hackathon**, Second Prize (among 70 participants) - [Announcement](#)
- **Linux Foundation Student Scholarship** for KubeCon+CloudNativeCon NA 2021
- Linux Foundation - **LiFT Scholarship 2021** - Open Source Newbies Category - [Link](#)
- **IBM/Clinton Foundation - Climate Change Solution**, Winner (among 254 participants) - PhillyCode Fest '20, Drexel University - [Project Link](#)
- **Best Speculative Design Award - 1ETH (\$1000)**, ETH Planet Hackathon - 2020 - [Details](#)
- Runner Up, HoppHacks 2020 (among 275 participants) - John Hopkins University - [Project Link](#)

TALKS AND COMMUNITY WORK

- Presented a talk about **From Chaos to Cohesion: The Role of Monorepo Managers** at JSConf India, Bengaluru - [Talk Link](#) - June 2023
- Presented a talk about **Comparison of Monorepo Managers**, internally at Red Hat - Jan 2023
- Invited to present about **Terraform Meets Elastic Cloud** at HashiTalks: Deploy, an international conference by Hashicorp - [Talk Link](#) - December 2022
- Presented a talk about **Composing Cloud Native Infrastructure with Docker Desktop and Meshery** at Docker Community Meetup, Bengaluru - [Event Details](#) - June 2022
- Invited to virtually talk about **Journey into the World of Service Meshes** at DevConf.CZ, Czechia - Jan 2022
- Presented a talk on **How to Contribute to Open Source Software and Its Principles**, internally at Red Hat - Nov 2021
- Co-organizer of **GitLab Bengaluru**, a community meetup of around 544 members interested in Distributed Systems, DevOps and OSS - [Meetup Group Link](#)

LEADERSHIP AND EXTRACURRICULAR

- **Mentored** students at the world's largest collegiate Hackathon, CalHacks 10.0, UC Berkeley - Oct 2023
- Co-founded **Tech Club of JyothyIT**, the body responsible for all the technical events in the institution - Nov 2020
- Volunteer at an NGO working towards cleaner, greener city - [Let's Be The Change](#), in handling their servers
- Member of International Association of Engineers([IAENG](#))
- Volunteered for a **Plastic Surgery Camp** organized by **Friends Welfare Org.** - Germany held in Bengaluru - Feb 2019
- Writing Technical Blogs related to DevOps, Cloud and Infrastructure - [Blog Link](#)
- Dwithiya Soupan Level Scout - The Bharat Scouts and Guides
- **Hobbies:** Gym, Cycling, Badminton, Numismatics, Motorcycle Rides