



# ADITHYA KRISHNA SHARMA

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## EDUCATION

### Jyothy institute of Technology

Bachelor of Engineering (B.E) in Computer Science

Aug 2017 - Aug 2021

Bengaluru, Karnataka

## WORK EXPERIENCE

### Red Hat

Associate Software Engineer

July 2021 - Present

Bengaluru - Remote

- Improved GitLab pipeline speeds by writing custom stages and coverage scripts by **25%**
- 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
- Working on the development of a **history feature** catering to scenarios involving **extensive historical data**, resembling the commenting system found on Reddit

### Google Summer of Code - OpenChemistry

Open-Source Developer

May 2023 - August 2023

United States - Remote

- Advised by and collaborated with **Prof. David R Koes**, University of Pittsburg, on **3dmol.js**
- Implemented tailored CI/CD for GitHub Actions for **caching**, **publishing packages** and worked on **performance improvements** for the NPM module
- Worked on migrating **loosely typed** JavaScript code to **strictly typed**, TypeScript code
- Migrated dependent library completely to TypeScript - **Pull Request**
- Accepted Project Details - **Link**

### Google Season of Docs - WasmEdge

Open-Source Technical Writer

May 2023 - Present

United States - Remote

- Implemented CI/CD through GitHub Actions with **Caching** and **Job Concurrency**
- Migrated and wrote sections of docs site to docusaurus

### Cloud Native Computing Foundation, Meshery

Maintainer of Meshery - CNCF Sandbox Project

March 2021 - Present

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

### Mattermost,

Open-source Solution Contributor

October 2021 - November 2022

Palo Alto, California - Remote

- Implemented ESLint Rules for Mattermost Zendesk app and Improved UI of Focalboard
- Wrote and updated technical documentation of Mattermost docs

### Bounce - WickedRide

Full Stack Developer Intern

Nov 2020 - Dec 2020

Bengaluru, Karnataka

- Implemented UI using **React-Native**, **Firebase**, and **Netlify** for **CI Pipeline** to rate and tip delivery persons
- Created **high fidelity prototypes**, and enhanced user experiences for users of the app as well as delivery persons.

## PUBLICATIONS

### arXiv

In Progress - Under Review

- Article Title:** Malware Classification using Deep Neural Networks: Performance Evaluation and Applications in Edge Devices

### 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

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**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

**Vue - Wearable Indoor Navigation System for the Visually Impaired** | *YoloV4, OpenCV, Python, Raspberry Pi* **July 2021**

- A device which uses Machine learning, OpenCV and Image Classification to detect the objects around the user and give accurate feedback in the form of audio and haptic mode - **Bachelor Thesis**

## SKILLS

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**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

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- **Microsoft Certified: Azure Fundamentals**, Microsoft - [Certificate](#)
- **Introduction to Artificial Intelligence**, LinkedIn Learning - [Certificate](#)
- **Deep Learning: Image Recognition**, LinkedIn Learning - [Certificate](#)
- **Web Design for Everybody**, University of Michigan - [Certificate](#)
- **AWS Fundamentals**, Coursera - [Certificate](#)

## HONORS AND AWARDS

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- Unified Data Analytics Track, **Winner** - 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 - [Announcement](#)
- Team Advocate Award 2021, 2022, **Red Hat** - [Link](#)
- **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 - PhillyCode Fest '20, **Drexel University** - [Project Link](#)
- **Best Speculative Design Award**, ETH Planet Hackathon - 2020 - [Details](#)
- Runner Up, HoppHacks 2020 - **John Hopkins University** - [Project Link](#)
- Best Hardware Hack Winner, SunHacks 2020 - **Arizona State University** - [Project Link](#)
- Best Finance Hack Winner, GrizzHacks 5 - **Oakland University** - [Project Link](#)
- Best Hardware Hack, HackRPI 2020 - **Rensselaer Polytechnic Institute** - [Project Link](#)

## TALKS AND COMMUNITY WORK

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- Presented a talk about **From Chaos to Cohesion: The Role of Monorepo Managers in Red Hat's Development Process** at **JSConf India**, Bengaluru - **June 2023**
- Invited to present about **Terraform Meets Elastic Cloud** at **HashiTalks: Deploy**, an international conference by **HashiCorp** - **December 2022**
- Presented a talk about **Composing Cloud Native Infrastructure with Docker Desktop and Meshery** at Docker Developer Community Meetup, Bengaluru - **June 2022**
- Invited to present about **Journey into the World of Service Meshes** at **DevConf.CZ**, Czech Republic - **January 2022**
- Co-organizer of **GitLab Bengaluru**, a community meetup of around **541** members interested in DevOps, Distributed Systems, MLOps and Open-Source - [Meetup Link](#)

## LEADERSHIP AND EXTRACURRICULAR

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- Co-founded **Tech Club of JyothyIT**, the body responsible for all the technical events in the institution - **November 2020**
- Volunteered for an **NGO** working towards cleaner, greener Bengaluru - [Let's Be The Change](#) by handling their website maintenance, GitHub organization and reviewing PRs
- Volunteered for a **Plastic Surgery Camp** organized by **Friends Welfare Organization, Interplast** - **Germany** held in Bengaluru - **February 2019**
- Member of International Association of Engineers(IAENG)