

# 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

**Red Hat**

*Software Engineer*

**Nov 2021 - Present**

*Bengaluru - Remote*

- Promoted to **Software Engineer - L2** from **Associate** for exceptional performance and contributions
- 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
- Contributed to **CEPH** and **Red Hat OpenShift**
- Working on the development of a **history feature** catering to scenarios involving **extensive historical data**, resembling the commenting system found on Reddit

**Red Hat**

*Software Engineer Intern*

**July 2021 - Oct 2021**

*Bengaluru - Remote*

- Worked on writing unit tests for components using Jest and React Testing Library
- Increased overall unit test coverage of the application
- Revamped the UI of a Feedback form
- Contributed to **Kong** Service Mesh

**Google Summer of Code - OpenChemistry**

*Open-Source Developer*

**May 2023 - August 2023**

*United States - Remote*

- Mentored by and collaborated with **Prof. David R Koes**, University of Pittsburg, on [3Dmol.js](https://github.com/3Dmol/3Dmol.js)
- Implemented tailored CI/CD for GitHub Actions for **caching**, 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
- Issue Tracking Overall Progress - [GitHub Tracker](#)

**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

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

**Oct 2023**

- **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

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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* **May 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**
- XPLOR - A Satellite as a Service platform** | *Raspberry Pi, Firebase, Google Cloud, React Native* **October 2020**
- A way to develop Low-Cost satellites for hobbyists and other people wanting to learn more about how a sensor works, how the weather data is analyzed, and more
- GitMath - Git, but for Math** | *Flutter, Dart, Firebase, Google Cloud* **September 2020**
- An app to create new math problems, clone and fork existing problems which you can collaborate with and contribute to so that once it's solved, you can push it back to the main repository
  - Second Place Winner** - HackNUthon, Nirma University - [Certificate](#)

## 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 Use of Google Cloud Award**, HackRPI 2020 - **Rensselaer Polytechnic Institute** - [Project Link](#)
- Best Finance Hack Winner**, GrizzHacks 5 - **Oakland University** - [Project Link](#)
- Best Hardware Hack Winner**, TigerHacks - **University of Missouri** - [Project Link](#)

## TALKS AND COMMUNITY WORK

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- Presented a talk about **From Chaos to Cohesion: The Role of Monorepo Managers** at **JSConf India**, Bengaluru - [Talk Link](#) - **June 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 Developer 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**
- Co-organizer of **GitLab Bengaluru**, a community meetup of around **541** members interested in Distributed Systems, DevOps and OSS - [Meetup Group 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 - **Nov 2020**
- Volunteer at an **NGO** working towards cleaner, greener city - [LBTC](#) for handling their website maintenance
- Member of International Association of Engineers(IAENG)
- Dwithiya Soupan Level Scout - The Bharat Scouts and Guides
- Mentored students at the world's largest collegiate Hackathon, CalHacks 10.0, **UC Berkeley** - **Oct 2023**
- 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](#)
- **Hobbies:** Gym, Cycling, Badminton, Numismatics, Motorcycle Rides