

# HRUTHWIK M

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## INTERNSHIP SUMMARY

### Hewlett Packard Enterprise (HPE)

Feb 2025 – Present

Linux, VMware ESXi, Athonet Core, 3GPP, Wireshark, MobaXterm.

- Deployed private 4G/5G networks for enterprise clients across APAC, contributing to 2 successful rollouts.
- Configured 3GPP core components (AMF: Access Management Function, SMF: Session Management Function, UPF: User Plane, NRF: Network Repository Function) using Athonet's platform to ensure reliable end-to-end connectivity.
- Troubleshoot deployment and integration issues, resulting in a 10-15% improvement in network performance and uptime.
- Delivered client onboarding and training sessions, enabling enterprise teams to manage and scale their private network infrastructure independently.

### Tuxmo Technologies LLP

May 2024 – Sep 2024

React Native, Firebase (Auth, Firestore, Cloud Storage), AsyncStorage.

- Built and deployed a mobile app (**Ecomitra Organiqs**) in React Native to support reforestation efforts, helping users easily track and participate in seedball plantation drives. Followed Agile practices to iterate quickly based on feedback.
- Transformed an environmental conservation platform's efficiency by designing geolocation and QR code features while collaborating with 8 organizations, resulting in 20% faster deployments and growth to 11,000+ active users with enhanced field engagement.

## TECHNICAL SKILLS

**Languages / Frameworks** : Java, C++, Python, SQL, React, React Native, HTML, CSS.

**Technologies / Tools** : Relational Database (MySQL), Appwrite(Cloud), Firebase, Git, GitHub, Jupyter.

**Coursework**: System Design, Data Structures and Algorithms, Complexity Analysis, Operating Systems (OS), Computer Networks (CN), Database Management Systems (DBMS), Debugging, Object-Oriented Design (OOD).

## PROJECTS

### Cardio Care | JavaScript, Python libraries (Image processing), Flask, CNN, ML, Grok (xAI) (Demo)

- Built a heart attack prediction application using webcam-based facial analysis with CNNs and signal processing techniques such as Haar Cascade, Eulerian Video Magnification, Gaussian Pyramid, and FFT; applied linear and non-linear optimization methods to extract heart rate, HRV, stress, and respiration rate.
- Integrated a Random Forest model with 97.85% accuracy for predicting heart attack risk using facial scan data and user inputs, with real-time graphs and downloadable health reports.
- Enabled AI-powered doctor chat for in-depth report analysis and instant emergency medical support access.

### DSATM Printing Shop | React, Node.js, Express.js, MySQL, Appwrite (Auth, Bucket) (Demo)

- Developed a prototype to streamline print order workflows, projected to reduce queue wait times by over 70% and improve shop efficiency by at least 80%, under review by college administration for official deployment.
- Created a PDF upload and pre-ordering system, optimizing peak-hour management and order processing. Used MySQL to store order metadata and Appwrite for PDF storage and user authentication, with potential adoption for 6000+ students and faculties.

## ACHIEVEMENTS

- Won 3 hackathons, including an Intercontinental hackathon with 580+ participating teams.
- Secured 2nd place in a state-level coding competition conducted by Oracle with 720+ participants.

## EDUCATION

### Dayananda Sagar Academy of Technology and Management

2021 – 2025

B.E - Information Science and Engineering - **CGPA : 8.91**

Bengaluru