Harsh Upadhyay

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Education

University Of Mumbai   **2022 − 2026**
Bachelor of Engineering in Computer Science Engineering   *CGPA: 8.87 (Till 5th Semester)*

Relevant Coursework

- Data Structures
- Algorithms
- Operating Systems
- Computer Networks
- DBMS
- Artificial Intelligence
- Software Engineering
- Theory Of Computation

Experience

Golang Developer Intern   **November 2024 − Present**
HireIntel.ai   *Mumbai, Maharashtra*

- Developed a **modular monolithic** backend system using **Golang and Gin-Gonic**, reducing response times by **30%** and improving **system scalability**.
- Implemented an automated **emailing service** using **SendGrid**, increasing user engagement by **20%** through effective communication workflows.
- Deployed the application on **AWS EC2** with **Nginx** as a reverse proxy, ensuring **99.9% uptime**, and collaborated with the frontend team to resolve bugs, reducing reported issues by **15%**.

Production Engineer (Team Lead)   **July 2023 − April 2024**
TCET-Opensource   *Mumbai, Maharashtra*

- Implemented an **automated daily unit testing service** for a product in development, reducing the time required for bug identification and fixing by team members.
- Streamlined the software delivery lifecycle by introducing **continuous integration and deployment (CI/CD)**, resulting in a **25% reduction in delivery time** and fewer production defects.
- Optimized application performance and infrastructure scalability, achieving significant improvements in response time and overall system efficiency.

Projects

Arka Linux | *Go, GTK, TailwindCSS, Next.js*   **April 2024 − Present**

- Developed a comprehensive **Welcome Application** using the **GoTK**, integrating **Golang** and **GTK**, enabling seamless system-level communication and providing a modern UI for **Arka Linux**.
- Implemented essential features in the Welcome Application, including **system updates**, **mirrorlist management**, and **theme customization**, significantly improving the user onboarding experience and system flexibility.
- Redesigned and maintained the **Arka Linux GUI website** using **Next.js** and **TailwindCSS**, enhancing user navigation, accessibility, and overall aesthetics.

Contanize | *Go, Docker, Wails Framework, ReactJs, Shadcn*   **May 2024 − September 2024**

- Developed a **GUI desktop application** in Go using **Docker containers**, implementing **statistics tracking** and **customizable templates**, resulting in efficient management of isolated development environments.
- Integrated **MongoDB** and **PostgreSQL** database support, expanding the application's versatility and accommodating diverse project requirements.
- Implemented templates for **Next.js**, **Next.js with TypeScript**, **Nest.js** and **Go-Fiber with Templ and Tailwind CSS**, streamlining project setup processes and boosting user productivity.

Open Source & Volunteer Contributions

Developer & Maintainer   **April 2024 − Present**
Arka Linux GUI (ALG)   *Mumbai, Maharashtra*

- Led the **maintenance and stability efforts** of **Arka Linux GUI**, resolving over **50 user-reported issues** and implementing bug fixes, increasing system reliability by **20%**.
- Collaborated with the core team to **manage 10+ feature releases** and integrate critical updates, reducing the average release cycle by **25%** and ensuring seamless user adoption.
- Enhanced **community engagement** by addressing **30+ feature requests**, improving documentation, and driving the adoption rate of Arka Linux GUI among new users by **15%**.

Google Cloud Study Jam Facilitator   **September 2023 − April 2024**
GDSC TCET   *Mumbai, Maharashtra*

- **Managed** a group of 150 students in Google Cloud Study Jam, implementing effective program delivery strategies, resulting in **high engagement and completion rates**.
- **Organized and conducted** technical workshops and events, focusing on enhancing skills within the community, leading to **improved technical knowledge and participation**.

Programming Skills

- **Languages:** Go, Java, JavaScript, TypeScript, Python
- **Databases:** MongoDB, PostgreSQL
- **Tools & Frameworks:** Git, Docker, CircleCI, Kubernetes, Go-Fiber, Gin-Gonic, NextJs, ExpressJs, Spring Boot, Nest, Wails
- **Platforms & Environments:** Linux, AWS, Azure