

HARSH UPADHYAY

Mumbai, India

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Education

Mumbai University

Bachelor of Engineering in Computer Science Engineering

2022 – 2026

Mumbai, Maharashtra

Relevant Coursework

- Data Structures & Algorithms
- Operating Systems
- Computer Networks
- Database Management Systems
- Digital System Design & Computer Architecture
- Information & Cybersecurity Fundamentals

Experience

Core Team - Developer

Arka Linux GUI (prev. Arch Linux GUI)

April 2024 – Present

Mumbai, Maharashtra

- Developed a comprehensive **welcome application** using **Wails framework**, integrating **Golang** and **React + TailwindCSS**, resulting in improved user onboarding experience for ALG.
- Redesigned** and implemented the ALG site using **NextJs** and **TailwindCSS**, leading to enhanced user interface, improved navigation, and increased visual appeal.
- Collaborated closely with team members to address and resolve issues promptly, enhancing overall product quality and team efficiency.

Production Engineer (Team Lead)

TCET-Opensource

July 2023 – April 2024

Mumbai, Maharashtra

- Implemented an **automated daily unit testing service** for a product in development, reducing time needed for bug identification and fixing by team members.
- Transformed software delivery lifecycle by implementing **continuous integration and deployment**, resulting in a **25% reduction** in delivery time and decreased production defects.
- Optimized application performance and infrastructure scalability, achieving a significant increase in response time and overall system efficiency.

Projects

ALG Welcome | Go, ReactJs, Wails Framework, TailwindCSS

April 2024 – Present

- Developed a comprehensive welcome application using **Wails framework**, integrating **Golang** and **React + TailwindCSS**, resulting in a **seamless system-level communication** and modern UI for **Arka Linux**.
- Implemented key features including **system updates**, **mirrorlist management**, and **theme changing**, enhancing user onboarding experience and system customization options.
- Designed a **highly responsive UI** using React and TailwindCSS, ensuring smooth user experience across various screen sizes and improving overall user engagement.

Contanize | Go, Docker, Wails Framework, ReactJs, Shadcn

May 2024 – Present

- 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 **Nest.js**, **Next.js**, **Next.js with TypeScript**, and **Go-Fiber with Templ and Tailwind CSS**, streamlining project setup processes and boosting user productivity.

TCET-Linux | Arch Linux, Shell, Github Actions

June 2023 – February 2024

- Engineered an efficient **GitHub Actions release workflow** for TCET Linux, leveraging expertise in GitHub, Arch Linux, and shell scripting, resulting in improved ISO building process.
- Designed and implemented a **customized application installer** for TCET Linux, reducing installation time by **20%** and receiving positive user feedback within the initial release period.
- Contributed to the **open-source community** while learning and applying new techniques and technologies, demonstrating commitment to personal growth and skill development.

Leadership and Involvement

GDSC TCET

Google Cloud Study Jam Facilitator

September 2023 – Present

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, JavaScript, TypeScript, Python, Java, HTML/CSS
- Tools/Frameworks:** Docker, NextJs, ExpressJs, Spring boot, NestJs, Wails, Git, MongoDB, PostgreSQL, Linux, AWS, Azure