Harsh Upadhyay

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Education

Mumbai University   **2022 − 2026**
Bachelor of Engineering in Computer Science Engineering   *Mumbai, Maharashtra*

Experience

Core Team - Developer   **April 2024 − Present**
Arka Linux GUI (prev. Arch Linux GUI)   *Mumbai, Maharashtra*

- Created a comprehensive welcome application for ALG using the **Wails framework**, integrating Golang for system-level communication and React + TailwindCSS for a modern UI.
- Redesigned and implemented the ALG site, ensuring a **more user-friendly interface**, improved navigation, and enhanced visual appeal, leveraging NextJs and TailwindCSS.
- Worked closely with team members to address and resolve issues promptly, demonstrating **effective communication** and **teamwork skills**.

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

- Cooperated with the development team to a service to **automatically** perform a set of unit tests daily on a product in development in order to decrease time needed for team members to **identify and fix bugs/issues**.
- **Transformed** software delivery lifecycle with implemented continuous integration and deployment, resulting in a ∼**25% reduction** in delivery time and **decrease** in production defects.
- Impacted to a notable improvement in application performance, achieving an **increase in response time** and optimizing infrastructure scalability.

Projects

ALG Welcome | *Go, ReactJs, Wails Framework, TailwindCSS*   **April 2024 − Present**

- Created a comprehensive welcome application for Arka Linux using the Wails framework, seamlessly integrating **Golang for system-level communication** and **React + TailwindCSS for a modern UI**.
- Implemented key features such as system updates, mirrorlist management, screen resolution adjustments, and theme changing, ensuring a **user-friendly onboarding experience** for users.
- Designed a highly responsive and visually appealing UI using **React** and **TailwindCSS**, ensuring a smooth and engaging user experience across different screen sizes and resolutions.

DevBox | *Go, Docker, Cobra CLI, Bubbletea*   **March 2024 − May 2024**

- Developed a **Go-based** CLI tool integrating **Docker Engine API** and **Bubbletea**, enabling seamless creation and management of 10+ isolated containers with desired tech stacks, significantly reducing environment setup time.
- Implemented robust functionality for **creating**, **starting**, **stopping**, **listing**, **removing** containers and **Docker images**, supporting volume mounting and repository cloning for seamless local code integration.
- Leveraged the **Cobra CLI** framework to design an intuitive command-line interface with clear commands, subcommands, and flags, enhancing usability and ease of navigation for users.

TCET-Linux | *Arch Linux, Shell, Github Actions*   **June 2023 − February 2024**

- **Engineered** an efficient GitHub Actions release workflow for TCET Linux, bolstering ISO building. Showcased expertise in GitHub, Arch Linux, and shell scripting, underscoring pivotal technical skills for the project.
- Individually **designed and implemented** a customized application installer for TCET Linux, achieving a 20% reduction in installation time and receiving **positive feedback** within the initial release period.
- Showcased a **commitment** to personal growth and skill development, learning and applying new techniques and technologies while **contributing to the open-source community**.

Leadership and Involvement

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

- **Orchestrated** the successful management of 150 students in Google Cloud Study Jam, optimizing program delivery **ensuring high engagement** and **completion rates**.
- Organized and conducted workshops and events to **enhance technical skills** and **knowledge** within the community.

Programming Skills

- **Languages:** Go, JavaScript, TypeScript, Python, Java, HTML/CSS
- **Tools/Frameworks:** Docker, React, NextJs, Wails, TailwindCSS, Git, GitHub, Linux