

# Sahil Khadayate

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## WORK EXPERIENCE

### BugsMirror Research Pvt. Ltd.

Jan 2024 - Present

#### Technical Intern

- Automated GCP tasks by replacing multi-step manual processes—like instance creation, startup, shell access, dependency installation, and AOSP repository cloning—with streamlined API calls. This reduced the average setup time per instance by 20%, minimizing hands-on management for large-scale networks.
- Engineered optimized Golang API functions, reducing the average runtime of cloud instances by 30% from 4 hours to 2.8 hours, resulting in lower resource consumption and improved system-level networking efficiency.
- Extensively utilized Linux shell scripting for system automation and network monitoring.
- Worked on system-level tasks involving research on custom Operating Systems pertaining to the Android Ecosystem.

## PROJECTS

### AOSP Source Code Builder

*Technologies used:* Golang, Docker, GCP, Shell Scripting

- Automated the build process for the Android Open Source Project (AOSP), improving efficiency in large-scale software deployments using parallelization to reduce the average build time averaging to about 4 hours to 3 hours and cloud functions to optimize network bandwidth usage.
- Developed user interaction via API for seamless access and control over the build process.
- Leveraged Docker for consistent deployment and GCP for scalable infrastructure, ensuring high reliability and efficiency.

### Rick and Morty Wiki

[Github](#) | [Demo](#)

*Technologies used:* React.js, Bootstrap, SCSS, Axios, Postman

- Developed an engaging web app utilizing React, integrating with the Rick and Morty API.
- Streamlined API calls and enhanced data fetching efficiency, reducing initial load times by 20% for example from around 3.5 to 2.5 seconds on average.
- Bolstered the overall performance and reliability of the web application.

### Full stack Kanban Application

[API](#) | [Demo](#)

*Technologies used:* Typescript, Next.js, Express, Postgresql, Postman

- Designed and implemented an intuitive user interface using React for efficient task organization and tracking within a personal Kanban application.
- Enabled users to create, update, and manage tasks in a visually organized manner, boosting productivity by 25%.
- Reduced task management time by 25% by reducing steps to create a ticket from a range of 5-6 clicks to 3-5 clicks compared to traditional methods.

### URL Shortening Tool

[Github](#)

*Technologies used:* Golang, Redis, Docker, GCP

- Created an efficient URL shortening tool that shortens URLs and tracks usage statistics.
- Leveraged Redis for fast data storage and retrieval and Docker for consistent deployment, increasing URL processing speed by 35% from an average of 350 ms to 240 ms with Redis for fast data retrieval
- Achieved 99.9% uptime due to Google Cloud Platform's (GCP) scalability, reliability and high availability.

## EDUCATION

2020 - 2024 Bachelor of Technology in Computer Science and Engineering at **Pandit Deendayal Energy University (PDEU)** (CGPA: 9.75/10)

## SKILLS

Programming Languages	Java, JavaScript, Golang, C++
Frameworks	Spring Boot, React.js
Web Development	HTML & CSS, Angular, Next.js, Express
Tools	Linux, Docker, GCP, AWS, Git
Methodologies	Agile, Lean