

HARSH PRATAP SINGH

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DevOps, Cloud Computing and Backend Development Enthusiast

EDUCATION

Indian Institute of Information Technology

BTech Computer Science Engineering

Bhopal

December 2021 - Present

PROFESSIONAL EXPERIENCE

DoubtConnect

May 2023 - Present

SDE Intern

- Enhanced and developed backend services in Node.js, reviving and optimizing existing features.
- Orchestrated NGINX server setup on AWS, deploying SSL certificates and managing multiple websites seamlessly.
- Streamlined Android app, reducing download size by 70%, employing React Native, and introducing secure OTP-based login.
- Spearheaded Discord bot development, leveraging deep learning models to increase user engagement.

Graviti

October 2022 - June 2023

Backend Intern

- Oversee back-end development using NestJS to maintain application integrity, security and efficiency.
- Utilize technologies such as TypeScript, PostgreSQL, TypeORM & Docker to improve codebase quality and increase stability.
- Improved databases and table structures following architecture methodology for database-driven web application.
- Migrated from Heroku to AWS, containerised the application using Docker and Docker Compose while creating necessary scripts wherever needed.
- Setup monitoring over Nginx to capture API requests of over 80 controllers and an average of 50k active series reducing it to 10k without affecting the existing source code and create health checks as well as monitoring the node server in the process.

Muzzo

October 2022 - December 2022

Software Development Intern - Backend

- Maintain legacy code using NodeJS, MongoDB & Docker to improve production stability.
- Redeveloped existing software architecture to improve performance and scalability using Django, Docker & AWS.
- Designed & developed databases and table structures with PostgreSQL.

PROJECTS

Slack Bot

September 2022

<https://harshh2002.github.io/slack-bot/>

- Create an interactive bot with low code templating tailored for every kind of user.
- Started with small features, growing with the use cases every day and implementing a CI/CD pipeline to get the new features out using GitHub actions.
- From serving files stored to getting files from users and sorting them and storing them efficiently to greeting and giving various functionality to the user.

Reddit-CLI

July 2022

<https://github.com/harshh2002/reddit-cli>

- This project is basic implementation of how RESTful API works. It parses the json data from reddit and posts the random memes using that parsed json file using node.js

DOT Files

July 2022

https://github.com/harshh2002/dot_files

- Dotfiles helps in managing my MacOS configuration using git, github and github actions and other basic shell commands. Usage of other basic functionality like automation, cron jobs, version controls and CI/CD practices are implemented.

File Drawer

July 2022

<https://github.com/harshh2002/file-drawer.git>

- This project is the basic application of back-end using Node.js and express along with usage of get and post requests. File Drawer currently creates a server to upload files from clients locally.

SKILLS

Programming Languages:	Python, C++ ,C, Java, GoLang, Rust
Cloud Platforms:	AWS , Google Cloud
Devops Tools:	Docker, Kubernetes, GitHub (with Github Actions), GitLab, Git
Database Management Systems:	MySQL , PostgreSQL, MongoDB
Libraries / Frameworks:	ReactJs , NodeJs, NestJs, FastAPI, MongoDB, ExpressJs
Soft Skills:	Leadership, Communication Skills, Organised

ACHIEVEMENTS

Winner

GDSC IIIT Bhopal

Won first prize in Web Development Week ReactJs quiz contest conducted by GDSC IIIT Bhopal.

Skills Used: ReactJs

2022