• proffapt.hashnode.dev • GitHub

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Education

2021-2025 B.Tech. in *Industrial & Systems Engineering -* **Indian Institute of Technology, Kharagpur** CGPA **8.46**

Experience

• Software Engineering Intern | AWSMO

Apr'24 - Present

- Streamlined ML workflow, achieving 55% faster execution & 50% greater scalability with AWS Batch & CloudFormation
- Enhanced deployment efficiency by 100% through CI/CD pipelines and unit tests covering ~80% of the code base
- Identified 17 bottlenecks across all services via a benchmarking framework written in Golang, Python, and Terraform
- Optimized time series data parsing by 40% by implementing efficient business logic in the Django REST Framework
- Reduced service downtime by 30% via post-deployment health checks & rollback mechanisms in deployment pipelines

Projects

Naarad | Golang, Python

Jun '24 - Jul '24

- Deployed a student-run noticeboard service for IIT Kharagpur community, serving over 7000 daily active users
- Managed deployment on Digital Ocean with Docker, leveraging GitHub Actions for CI/CD, scaling for over 15,000 users
- Reduced unauthorized access attempts by 30%; OTP and nginx rules restrict only sign-up/sign-in to the campus network
- Integrated with MFTP, delivering students real-time placement portal notices, with a delivery delay of under 3 minutes

Apnalnsti | Django, AWS

Jan '24 - Feb '24

- Published an official mobile app for IIT KGP, increasing student involvement by 30% in institute-organized activities
- Orchestrated deployment on AWS EC2, utilizing CodeDeploy & CodePipeline, scaled for 10,000+ users with AWS ECS
- Built features: travel share and buy/sell portal; led a team of 10 developers, developing in Django and React Native
- Engineered a real-time scoreboard feature, serving 5000+ concurrent users, using Golang, PostgreSQL & WebSockets

• Metahub | C, Bash, Linux Utilities

Jan '23 - May '23

- Revamped a PtokaX based Direct Connect Hub exclusive to IIT Kharagpur, improving the setup efficiency by 80%
- Resolved compilation errors & a ban functionality bug, increasing server stability by 90% & ensuring a smooth installation
- Created automation and monitoring scripts, with a 95% up-time, and set up fallback for uninterrupted server availability

GSYNC | Bash, Linux Utilities

Apr '22 - May '22

- Developed a CLI tool for real-time file & folder synchronization from local to remote git repositories, with 100% efficiency
- Implemented 8 service functionalities start, stop, status, restart, enable, & disable, with innovative selective start/stop
- Elevated user experience & ease of use through efficient troubleshooting by 40% & intuitive colored logs management

Achievements

• Inter-IIT Tech Meet 12.0 | Contingent Gold

Nov '23 - Dec '23

- Secured first place for the third consecutive time, contributing to cloud architecture, blockchain, and backend tech stack
- Patched an Aptos library bug & engineered a novel Metamask Snap allowing transacting Aptos coin via Metamask Wallet

Positions of Responsibility

Maintainer | Metakgp, IIT Kharagpur

Aug '23 - Present

- Developed and maintained **over 20 open-source projects** for IIT Kharagpur students, easing out various stressful processes
- Published IQPS, a Golang, PostgreSQL, and Svelte app, hosting 500+ question papers over 19 years with vector search
- Deployed Kronos, a web app in Python that collects and analyzes 12,500+ records, providing detailed grade distributions

Advisor, FOSS United Club Lead | Kharagpur Open Source Society, IIT Kharagpur

May '22 - Present

- Organised over 15 workshops, promoting and advocating the adoption of open-source software amongst the students
- Organised Kharagpur Winter of Code-('22 and '23), inspired by Google Summer of Code, with 1.2k+ and 2.5k+ participants

Technology Coordinator | Technology Students' Gymkhana, IIT Kharagpur

Jul '23 - Jul '24

- Oversaw technological advancements at IIT Kharagpur; assisted in resolving over 200 student complaints every month
- Reduced build size of site by 90%, migrating static data to PostgreSQL using automated BASH & Python scripts efficiently
- Migrated from AWS to on-premise server; leveraged Proxmox for 3-layered system design and novel CI/CD pipelines

Technical Skills

Languages	Python, Golang, Bash, TypeScript, JavaScript
Frameworks	Django, Flask, Go-Fiber, Node.js, Metamask Snaps
DBMS	PostgreSQL, MongoDB, MySQL
DevOps	Networking, Linux Administration, Docker, Nginx, Apache Web Server, Cloudflare, Terraform,
	Amazon Web Services (AWS), Digital Ocean (DO), Jenkins, Argo CD, YAML, GitHub Actions