

ARPIT BHARDWAJ | 21IM10009

INDUSTRIAL ENGG. (B.Tech 4Y)



EDUCATION			
Year	Degree/Exam	Institute	CGPA/Marks
2025	B.TECH	IIT Kharagpur	8.40 / 10
2020	AISSCE (CBSE XII)	Shriji Baba Saraswati Vidya Mandir	94%
2018	AISSE (CBSE X)	Shriji Baba Saraswati Vidya Mandir	96.4%

INTERNSHIPS

Software Engineering Intern | Awsmo Incorporated

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 and rollback mechanisms in deployment pipelines

PROJECTS

laarad 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 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 and CodePipeline, scaled for 10,000+ users with AWS ECS
- Designed travel share and buy/sell portal; spearheaded a team of 10 developers, developing in Django and React Native
- Engineered a real-time scoreboard feature, serving 5000+ concurrent users, using Golang, PostgreSQL and WebSockets

letahub Jan '23 - May '23

- Revamped a PtokaX-based P2P file-sharing service exclusive to IIT Kharagpur, catering 50TB+ of content to 800+ users
- Resolved compilation errors & a ban functionality bug, increasing server stability by 30% and ensuring a smooth installation
- Engineered automation and monitoring scripts, & set up fallback for uninterrupted server availability, ensuring 95% up-time

GSYNC *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, and disable, with innovative selective start/stop
- Elevated user experience by 40% with intuitive logs management and troubleshooting, with support for macOS and Linux

COMPETITION/CONFERENCE

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 2 Aptos library bugs and designed 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

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

Mav '22 - Jul '2

- 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 '2

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

SKILLS AND EXPERTISE

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

Others: Git, GitHub, GitLab, Proxmox, Backend Development, Web Browser Extension Development