



EDUCATION

Year	Degree/Exam	Institute	CGPA/Marks
2025	B.TECH	IIT Kharagpur	8.40 / 10
2020	AISSE (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
<ul style="list-style-type: none">Streamlined ML workflow, achieving 55% faster execution & 50% greater scalability with AWS Batch & CloudFormationEnhanced deployment efficiency by 100% through CI/CD pipelines and unit tests covering ~80% of the code baseIdentified 17 bottlenecks across all services via a benchmarking framework written in Golang, Python, and TerraformOptimized time series data parsing by 40% by implementing efficient business logic in the Django REST FrameworkReduced service downtime by 30% via <i>post-deployment health checks</i> and <i>rollback mechanisms</i> in <i>deployment pipelines</i>	

PROJECTS

Naarad	Jun '24 - Jul '24
<ul style="list-style-type: none">Deployed a student-run noticeboard service for IIT Kharagpur community, serving over 7000 daily active usersManaged deployment on Digital Ocean with Docker, leveraging GitHub Actions for CI/CD, scaling for over 15,000 usersReduced unauthorized access attempts by 30%; OTP and nginx rules restrict only sign-up/sign-in to the campus networkIntegrated with MFTP, delivering students real-time placement portal notices, with a delivery delay of under 3 minutes	
ApnaInsti	Jan '24 - Feb '24
<ul style="list-style-type: none">Published an official mobile app for IIT KGP, increasing student involvement by 30% in institute-organized activitiesOrchestrated deployment on AWS EC2, utilizing CodeDeploy and CodePipeline, scaled for 10,000+ users with AWS ECSDesigned travel share and buy/sell portal; spearheaded a team of 10 developers, developing in Django and React NativeEngineered a real-time scoreboard feature, serving 5000+ concurrent users, using Golang, PostgreSQL and WebSockets	
Metahub	Jan '23 - May '23
<ul style="list-style-type: none">Revamped a PtokaX-based P2P file-sharing service exclusive to IIT Kharagpur, catering 50TB+ of content to 800+ usersResolved compilation errors & a ban functionality bug, increasing server stability by 30% and ensuring a smooth installationEngineered automation and monitoring scripts, & set up fallback for uninterrupted server availability, ensuring 95% up-time	
GSYNC	Apr '22 - May '22
<ul style="list-style-type: none">Developed a CLI tool for real-time file & folder synchronization from local to remote git repositories, with 100% efficiencyImplemented 8 service functionalities - start, stop, status, restart, enable, and disable, with innovative selective start/stopElevated 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
<ul style="list-style-type: none">Secured first place for the third consecutive time, contributing to cloud architecture, blockchain, and backend tech stackPatched 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
<ul style="list-style-type: none">Developed and maintained over 20 open-source projects for IIT Kharagpur students, easing out various stressful processesPublished IQPS, a Golang, PostgreSQL, and Svelte app, hosting 500+ question papers over 19 years with vector searchDeployed 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
<ul style="list-style-type: none">Organised over 15 workshops, promoting and advocating the adoption of open-source software amongst the studentsOrganised Kharagpur Winter of Code ('22 and '23), inspired by <i>Google Summer of Code</i>, with 1.2k+ and 2.5k+ participants	
Technology Coordinator Technology Students' Gymkhana, IIT Kharagpur	Jul '23 - Jul '24
<ul style="list-style-type: none">Oversaw technological advancements at IIT Kharagpur; assisted in resolving over 200 student complaints every monthAchieved a 90% reduction in site build size by <i>migrating static data</i> to PostgreSQL using efficient Python & Bash scriptsMigrated 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