



Mrinal Satyarthi

Roll No.:2401CE60

B.Tech

Civil and Environmental Engineering

Indian Institute Of Technology, Patna

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Github | Portfolio

LinkedIn

EDUCATION

Degree/Certificate	Institute/Board	CGPA/Percentage	Year
B.Tech. (CEE)	Indian Institute of Technology, Patna	7.20	2024-Present
Senior Secondary	CBSE Board	84.0%	2024
Secondary	CBSE Board	83.6%	2022

EXPERIENCE

- Judix Pvt. Ltd.** May 2025 - Present
Software Developer Engineer Remote
 - Developed responsive, user-facing features for the main application UI using **Next.js** and **TypeScript**.
 - Integrated the **Next.js** front-end with back-end **FAST APIs** to ensure seamless, full-stack data flow.
 - Wrote scripts to generate vector embeddings from MongoDB data and ingest them into an **Astra DB**.
 - Resolved critical bugs in the back-end **embeddings pipeline** and managed its execution on **AWS EC2**.

PROJECTS

- MediMitra: AI-Powered Healthcare Platform** Aug. 2025
Achieved 9th rank at the AI Agent Hackathon as a core developer in a full-stack team of five. Github
 - Developed an innovative medical application using an AI agent to fully automate patient appointment scheduling.
 - Deployed Dockerized microservices to AWS EC2, ensuring high availability with ELB and Auto Scaling Groups.
 - Tech Stack:** React.js, Node.js, TypeScript, MongoDB, WebSockets, Docker, AWS (EC2, ELB, ASG)
- Kubernetes Microservice Deployment on AWS** Sep. 2025
Architected and deployed a secure, scalable Kubernetes-based microservice application on AWS. Github
 - Authored all Kubernetes manifests, defining deployments, services, storage, and ingress routing for microservices.
 - Engineered a scalable multi-node Kubernetes cluster on AWS with Auto Scaling and production security.
 - Tech Stack:** Kubernetes, AWS (EC2, ASG, S3), Docker, Nginx, Tomcat, YAML
- CI/CD Automation for Java Microservices** July 2025
Designed and implemented an automated CI/CD pipeline for Java microservices on AWS. LinkedIn
 - Engineered a CI/CD pipeline for Java microservices, cutting manual deployment time by 70%.
 - Automated Docker container builds and deployments to AWS ECS with Jenkins, Maven and SonarQube.
 - Tech Stack:** AWS (ECS, ECR), Jenkins, Docker, Groovy, Maven, SonarQube, Git

TECHNICAL SKILLS

- Frontend Development:** HTML, CSS, JavaScript, TypeScript, ReactJS, Next.js, Redux Toolkit
- Backend Development:** Python, Node.js, Express.js, FastAPI, RESTful APIs, JWT Authentication, Passport.js
- Databases:** MongoDB, MySQL
- DevOps & Cloud Technologies:** Git & GitHub, GitBash, Docker, Kubernetes, AWS (ECR, EKS, EC2, S3)
- CI/CD & Deployment Tools:** Jenkins, GitHub Actions, SonarQube, Netlify, Vercel
- Operating Systems:** Linux (Ubuntu), Windows

POSITIONS OF RESPONSIBILITY

- Sub Coordinator Web Dev Committee, TEDxIITPatna** Present
 - Engineered and deployed the TEDxIITPatna backend on Vercel, resolving caching issues for 80,000+ visitors.

ACHIEVEMENTS

- 2nd Runner Up** in UPES CSA 4.0 Hackathon 2024
- Secured 9th rank** in AI Agent Hackathon 2025
- Cleared JEE Top 1.5%** in India among 1.4 million Students. 2024

CERTIFICATIONS

- DevOps (Udemy):** Covered CI/CD, Docker, Kubernetes, Ansible, and cloud server infrastructure. Link