



Mrinal Satyarthi

Roll No.:2401CE60

B.Tech

Civil and Environmental Engineering
Indian Institute Of Technology, Patna

+91-7645054550
mrinalsatyarthi2005@gmail.com
mrinal_2401ce60@iitp.ac.in
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*