

# AYAN SEN

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LinkedIn | GitHub | Portfolio

## Professional Summary

Full-Stack and Backend Developer skilled in building scalable, cloud-ready applications with Python, Node.js, and React. Experienced in API design, cloud deployment, and integrating machine learning models in production environments. Passionate about automation, CI/CD, and scalable infrastructure—currently building expertise toward a future in DevOps engineering.

## Professional Experience

### Jaipur Smart City Limited — ML Developer Intern

July 2024 – October 2024

- Built and deployed AI-powered surveillance models (YOLOv8) for crime and ANPR detection, improving accuracy by 25%.
- Integrated models into edge-based real-time camera systems for Rajasthan Police using Python and Roboflow.
- Collaborated on requirement analysis, optimization, and deployment on Google Cloud infrastructure.

### Lawazia Tech — Backend Developer Intern

June 2024 – July 2024

- Developed backend architecture using Node.js (Fastify) and MongoDB for a shopping app.
- Designed RESTful APIs, authentication systems, and product recommendation logic, reducing response time by 30%.
- Deployed backend on cloud instances with CI/CD, gaining hands-on experience in DevOps workflows.

## Projects

### Snuger – Real-Time Social Media App

- Built with Node.js, Fastify, MongoDB, Socket.io, and GCP.
- Implemented user authentication, media sharing, and live chat for 1,000+ concurrent users.
- Followed microservice architecture and containerized APIs for scalable backend performance.

### 3D Interactive Portfolio

- Developed an immersive React Three Fiber and Django-based 3D website.
- Optimized performance for smooth 60 FPS rendering and deployed via Vercel CI/CD pipeline.

## Technical Skills

**Languages & Frameworks:** Python (Flask, Django), Node.js (Fastify, Express), React.js, C/C++, JavaScript (ES6+), Three.js

**Databases:** MongoDB, MySQL, Firebase, Redis (Basic)

**Cloud & DevOps:** GCP, Azure (Basic), CI/CD, Docker (Basic), Linux, Nginx

**AI/ML Tools:** TensorFlow, PyTorch, OpenCV, YOLOv8, Pandas, NumPy, Matplotlib, Scikit-learn

**Tools:** Git, GitHub, Postman, Jira, Confluence, Figma

**Soft Skills:** Problem Solving, Team Collaboration, Agile Development, Communication

## Education

**B.Tech – Computer Science & Engineering** | Dumka Engineering College | Jul 2025

CGPA: 7.0 / 10

## Achievements

- Finalist – Rajasthan Police Hackathon 2024 (Public Safety AI Project)
- Google IT Automation with Python – Coursera
- TensorFlow Developer Certificate (Basic Track) – In Progress