

Subhodeep Pal

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PROFILE

Mechanical Engineer (B.Tech, NIT Durgapur '24) Former research intern at IISc Bangalore. Proficient in Spring Boot, ReactJS, GCP, and Android-Java, with a strong interest in software development, AI/ML, and embedded systems.

EDUCATION

National Institute of Technology, Durgapur

Durgapur, India

Bachelor of Technology in Mechanical Engineering

2020 – 2024

- CGPA 8.31
- Relevant course works: Discrete Mathematics, Computer Networking, Electrical Instrumentation, Control System

SKILLS

Technical: C/C++, Java, JavaScript, ReactJS, Android App-Dev, Tailwind-CSS, Node-JS, MongoDB, Next-JS, Spring-Boot, CI/CD

Tools: GCP, AWS (S3, Athena, EC2), Docker, Kubernetes, GitHub Actions, Jenkins.

CERTIFICATIONS

- GCP Quicklabs badge
- Data Analysis with R Programming
- Foundations: Data, Data, Everywhere

EXPERIENCE

JSW Steel, Vijayanagar

Vijayanagar, India

GET, Logistics

Aug 2024 – Present

- Engineered an automated vacant line status display using Python, eliminating 100% of manual data entry and minimizing vacant line miscommunication by an estimated 90% across the entire logistics yard.
- Built real-time Computer Vision system using YOLOv8 and OpenCV to count wagons and detect tarpaulin coverage.
- Tech stack: Python, OpenCV, YOLOv8, Tesseract OCR, ResNet, ReactJS, Node-JS, MongoDB.

PROJECTS

Real-Time Weather App

- Developed a weather app displaying real-time conditions based on user location with a clean UI.
- ReactJS for frontend with Tailwind CSS, OpenWeatherMap API for live data.

Real-Time Messaging App

- Built a full-stack real-time chat app with one-to-one and group messaging using Socket.IO.
- Next.js with Tailwind CSS for frontend, Node.js and Express for backend, Zustand for state management, MongoDB for message storage.

ACHIEVEMENTS

- **Founder and Technical Head of AlleronX Drone Club**
Founder and Technical Head of AlleronX Drone Club of NIT, Durgapur. Achieved recognition for development and implementation of innovative drone-related projects
- **Google KickStart 2022**
Achieved a rank of 5707 in Google KickStart 2022, showcasing technical proficiency and problem-solving skill