

Ashish Sah

Full Stack & R&D Software Engineer

Email: ashishsah1000@gmail.com | Phone: 9631640767 |

SUMMARY

For more than six years, I have been a dedicated contributor in the vast landscape of the web. My expertise spans full-stack development, automation, and R&D engineering. My passion lies in the intersection of computer science and mathematics. Whether it's building performant React applications, developing scalable REST APIs in Rust and Node.js, or creating complex 3D data visualization systems with Cesium JS, Three JS, and OpenLayers, I thrive on solving complex technical challenges. Currently, I'm an R&D Software Engineer at Ideaforge, where I build end-to-end geospatial machine learning pipelines, drone map simulator viewers, and real-time drone data management platforms. Prior to this, I spent over 6 years at Tata Steel shaping their core industrial applications.

EXPERIENCE

R&D Software Engineer I

04 Nov 2024 - Present | Bengaluru, IN

Ideaforge Technology Ltd.

- Working on Flyght Cloud, an all-in-one drone data management platform for 3D analytics.
- Developed an end-to-end geospatial machine learning pipeline to detect stockpiles from DEM data using Python.
- Trained Random Forest classifiers with memory-efficient chunk processing by rasterizing GeoJSON.
- Created REST APIs in Rust Axum and developed user interfaces in React.js.
- Integrated Three JS with Potree.js and CesiumJs for 3D model processing.
- Lead frontend testing initiatives using JEST and auto-generation of unit test cases.

Senior Associate

04/2018 - 10/2024 | Jamshedpur, IN

Tata Steel

- Contributed to the development and maintenance of industrial-grade web applications.
- Created and optimized RESTful services using Node.js.
- Co-developed an employee-facing e-learning platform using React.js and Express.js.
- Won First prize for web development at Nationals and multiple Gold Medals at Tata Ideas.

PROJECTS

Study Send

An AI-powered education platform to upload study materials, generate AI-powered exams, and create revision cards. Integrated Zoom SDK and full RAG pipeline.

Grad AI

An AI-powered resume builder featuring prompt chaining, langchain integration, multiple templates, and robust authentication flow.

SKILLS

Frontend: React.js, Next.js, TypeScript, Tailwind CSS, Redux, Antd

Backend & Systems: Node.js, Rust, Python, Express.js, FastAPI, Rust Axum

Geospatial & 3D: Cesium JS, Three JS, OpenLayers, Potree, Photogrammetry

Databases & Tools: MongoDB, PostgreSQL, Docker, Jest, Grafana