Ayush Yadav

+91 7596937809 | sidharth197502@gmail.com | linkedin.com/in/ayush215mb | github.com/ayush215mb

Technical Skills

Languages: JavaScript, Typescript, Python, Rust, Golang, HTML, CSS.
Developer Tools: Git, VS Code, Cursor, Postman, GitHub, Figma, Expo EAS.
Frameworks/Libraries: React, Node.js, React Native, Next.js, Tailwind, Express.js, Nest.js, Go Fiber, Framer, Expo, Nativewind, Reanimated, Three.js, GSAP.

Experience

Frontend Developer Lead (Intern)   September 2025 - October 2025
Raksha 360   *Kolkata, India*
- Spearheaded a frontend team of 3 developers to architect and launch a Minimum Viable Product (MVP) within a high-velocity, 2-month development cycle.
- Actively contributed to the product ideation and strategic planning phases, translating early-stage business requirements into technical roadmaps and actionable tasks.
- Defined the frontend architecture and code standards, mentoring junior developers through code reviews to ensure a scalable foundation for the startup's core product.
- Collaborated closely with the design team to shape the application's flow and enhance UX.

React Native developer   February 2025 - September 2025
Droppins   *Lucknow, India (Remote)*
- Developed the entire mobile application frontend from scratch using React Native, ensuring 100% pixel-perfect fidelity to complex Figma design specifications.
- Implemented robust global state management architecture using Redux Toolkit, streamlining data flow across high-traffic user interfaces.
- Integrated complex GraphQL APIs using Apollo Client, optimizing data fetching with custom hooks and caching strategies to enhance app performance.
- Collaborated closely with the backend team to define schema requirements and ensure seamless end-to-end integration of features and real-time updates.

Projects

Parse Spy | *Electron.js, React.js, Node.js, Selenium, Google Firestore*   link ↗
- Developed an automated digital forensic tool using Selenium WebDriver to simulate human interaction for high-fidelity data extraction from social media platforms.
- Architected a modular desktop application with an Electron.js frontend and Node.js backend, achieving a 90% reduction in mean processing time compared to manual investigation.
- Integrated Google Firestore for secure, encrypted cloud storage of evidentiary data and metadata, ensuring data integrity and admissibility for legal proceedings.
- Engineered an automated reporting module using PDFKit to generate comprehensive forensic reports with embedded screenshots and verified timestamps.

Crop Sense | *React, Python, Random Forest, Neural Networks, IoT*   link ↗
- Developed an IoT-enabled predictive farming system (Indian Patent: 202531042207 A) that optimizes resource allocation by suggesting ideal crops based on real-time soil and climate data.
- Implemented a machine learning pipeline utilizing Random Forest and Neural Network algorithms to analyze soil characteristics, temperature, and humidity for high-accuracy yield prediction.
- Engineered an IoT sensor network and integrated hyper-local intelligence via satellite imaging and drone-based monitoring to ensure data collection in remote farmland areas.
- Built a responsive user interface allowing farmers to input location-specific details and receive personalized recommendations through a continuous learning feedback module.

Education

Narula Institute of Technology   Kolkata, India
B.Tech in Computer Science and Engineering with specialization in AI & ML