

OJASWEE UPADHYAY

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EDUCATION

University of Petroleum and Energy Studies (UPES)

B.Tech in Computer Science

Dehradun, India

Expected May 2028

TECHNICAL SKILLS

Languages: JavaScript/TypeScript, Python, Scala, Kotlin, SQL, Dart, Java

Frameworks: React, Next.js, Node.js, Express, FastAPI, Flask, React Native, Expo, Three.js

Tools & DBs: Git, Docker, Firebase, Supabase, MongoDB, PostgreSQL, Cloudflare Workers

EXPERIENCE

Sentienta QualityAI

React Developer Intern

Remote

Jun 2025 – Aug 2025, Jun 2026 – Present

- Enhanced enterprise layout usability for 500+ daily active users by redesigning the core web infrastructure using React and Tailwind CSS.
- Accelerated internal QA workflows by architecting and deploying 8 highly responsive, data-intensive QA interfaces.

BuildXLayer

Full Stack Developer Intern

Remote

Nov 2024 – Apr 2025

- Reduced average database query execution time by 40% by implementing strategic MongoDB index optimization and schema redesigns.
- Supported high-performance MERN stack applications with minimal latency by engineering robust RESTful backend APIs using Node.js and Express.

OPEN SOURCE CONTRIBUTIONS

ZIO, Tari Aiteen, OWASP Nest

Open Source Contributor

Remote

Feb 2026 – Present

- Enhanced platform stability by resolving critical CI regressions and modernizing core backend components within the ZIO/ZIO-Blocks ecosystem.
- Significantly reduced manual localization overhead by engineering a robust, automated i18n translation pipeline for Tari Aiteen.
- Engineered and merged critical core logic improvements into OWASP Nest, CircuitVerse, and TensorMap by resolving complex open architectural issues.

PROJECTS

MorphOS | Next.js, Three.js, Framer Motion, Gemini 2.0 Flash Vision

- Engineered a fully immersive, browser-based Generative Operating System capable of real-time application synthesis using WebGL shaders and LLMs.
- Achieved instant code generation from UI screenshots by implementing a multimodal visual compilation pipeline and native IDE subsystems.
- Built at the MLH AI Hackfest, demonstrating advanced spatial sandbox concepts and dynamic UI generation.

ColdEmailAI | Next.js, Python, OpenRouter AI

- Automated the generation of 10-15 highly contextual emails daily by integrating OpenRouter models to deeply analyze target company data.
- Improved B2B outreach efficiency by developing an end-to-end AI automation tool that intelligently researches and drafts personalized cold emails.

GradTrack | React Native, Expo, TypeScript

- Improved daily academic planning for university students by building a cross-platform mobile application to seamlessly track SGPA/CGPA trajectories and class attendance.
- Engineered a highly responsive, accessible cross-platform UI achieving native-like performance using React Native and Expo.