

Kiran Kumar S

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Experience

Full Stack Web Developer

Feb 2025 – Apr 2026

Coxdo Solution

- Delivered 5+ client websites across business, e-commerce, and portfolio domains — all currently live in production — handling scoping, implementation, and deployment independently.
- Engineered responsive front-end interfaces and RESTful back-end APIs across 15+ pages for a startup product, using React, Tailwind CSS, Node.js, Express.js, MongoDB, and MySQL.
- Achieved a 100% first-review approval rate across all client projects, with zero major revision cycles requested after final delivery.

Flutter Development Intern

March – April 2025

Software Development Company · Kochi, Kerala

- Shipped 2 cross-platform mobile applications using Flutter and Dart, managing the full lifecycle from Figma prototyping to release on Google Play Store and Apple App Store.

Skills

Languages:	JavaScript, TypeScript, Python, Dart
Frontend:	React.js, Next.js, Tailwind CSS, Responsive Design
Backend:	Node.js, Express.js, REST APIs, Firebase, Supabase
DevOps & Cloud:	Git, GitHub, Docker, Vercel

Projects

Smart Academic Assistant – Full-Stack AI Platform

Main Project

React 19, Node.js, Firebase, Google Gemini API, TensorFlow.js, Tailwind CSS

- Architected a production-ready multi-role platform (Admin, Teacher, Student) with AI-powered exam question prediction, real-time at-risk student detection, and automated timetable scheduling — backed by a single Firebase application.
- Built a custom Genetic Algorithm scheduler using tournament selection, two-point crossover, and elitism, resolving constraint-based timetable conflicts across 50+ time slots with zero manual input.
- Trained a TensorFlow.js neural network to classify students across 3 performance tiers; used Hugging Face transformer embeddings and TF-IDF cosine similarity for question prediction.
- Implemented a Google Gemini API manager with multi-key rotation, LRU caching, and exponential back-off — zero quota failures recorded across all production sessions.

SentinelFlag – On-Device Privacy Classification Engine

Python, PyTorch, Hugging Face, ONNX Runtime, React Native

- Built a 5-class on-device text sensitivity classifier (PII, financial, health, location, non-sensitive) with dataset generation, PyTorch training, ONNX export, and a React Native SDK — released open source.
- Achieved 100% test accuracy on a 1,500-sample evaluation set; reduced model size by 75% via INT8 quantization (268 MB to 67.4 MB) at 19.5 ms average CPU inference with no accuracy loss.

SiteCloner – 3-Agent AI Website Cloning System

Node.js, Playwright, Google Gemini, Server-Sent Events, Headless Chromium

- Designed a 3-agent pipeline (Analyst, Builder, and QA Inspector) that clones any React, Next.js, or Vue single-page application into a single self-contained HTML file, with real-time progress streaming across 3 AI back-ends and automatic failover.

Education

College of Engineering, Kalloppara

2022 – 2026

B.Tech Computer Science and Engineering · GPA: 7.72

Certifications

- Google Cloud Fundamentals – Google
- Machine Learning with Python – IBM and Coursera
- React – Meta (Coursera)