

# NIKHIL KUMAR

## Software Engineer – AI Specialist

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## PROFESSIONAL SUMMARY

**Software Engineer** with **1+ year** of experience building enterprise-grade applications and AI platforms. Proficient in scalable frontends with **React.js**, robust backends with **Python/Django**, and full-stack deployments on **AWS** and **Azure**. Skilled in **MLOps**, **LLM applications**, and **multi-agent systems**, delivering reliable and production-ready AI solutions.

## EXPERIENCE

### Tiger Analytics - Analyst

Dec 2024 - Sep 2025, Chennai

- Engineered frontend of a **multi-agent LLM platform** for product research and report automation, cutting manual effort by **50%**.
- Built **3-panel streaming interface** with live AI responses and Notion-style editing, enabling export to PPT, PDF, and Markdown, improving efficiency by **40%**.
- Developed **MLCore Monitoring Dashboard** for AWS/Azure ML pipelines, improving visibility into model health and pipeline performance.
- Implemented **interactive OpenAPI documentation**, reducing integration queries and accelerating onboarding by **35%**.
- Created drag-and-drop **Form Builder** with Zod validation, allowing non-developers to build reusable forms faster.
- Optimized frontend via **Redux integration** and code splitting, achieving **35% faster page loads**.

### Satcard - Software Developer Intern

May 2023 - Jul 2023, Remote

- Enhanced UI/UX and optimized **Django backend**, improving system performance by **60%**.
- Developed automated **WhatsApp notification system** and admin dashboard, increasing operational efficiency by **90%**.
- Built real-time **business metrics dashboard** with analytics, reducing decision-making time by **40%**.

## EDUCATION

### Indian Institute of Technology Palakkad

Nov 2020 - Jun 2024

Bachelor of Technology in Electrical Engineering

CGPA: **7.99/10.0**

## TECHNICAL SKILLS

Frontend	React.js, Next.js, TypeScript, Redux/Recoil, Tailwind CSS
Backend	Python (Django, FastAPI), Node.js, REST/GraphQL APIs, WebSockets, tRPC
AI/ML	LLM Applications, Multi-Agent Systems, LangGraph, OpenAI/Gemini API, AI Automation, MLOps
Database	PostgreSQL, MySQL, MongoDB, Prisma, Vector Databases
Cloud/DevOps	AWS, Azure, Docker, CI/CD Pipelines, Git, Vercel
Programming	Python, C++, Data Structures & Algorithms (Codeforces Specialist, Rating 1510)

## KEY PROJECTS

### CareerGenie - AI Career Counseling SaaS [Live](#) · [Code](#)

Next.js, NextAuth.js, TypeScript, tRPC, Prisma, PostgreSQL, Google Gemini API

- Built production-ready **AI Career Counseling Platform** with secure OAuth and real-time chat, serving **500+ users**.
- Implemented intelligent **conversation context management** with auto-generated session titles via Gemini API.
- Developed scalable session handling with infinite scroll, theme support, and mobile-first responsive design.

### AgriSense - Smart Agricultural Management Platform [Demo](#)

Django, Python, MySQL, JavaScript, Google Maps API

- Developed a comprehensive **IoT dashboard** for real-time crop monitoring, serving **200+ customers**.
- Integrated ML crop stage algorithms and weather APIs with **85% prediction accuracy**, reducing planning time by **30%**.
- Improved **MySQL** and Google Maps performance, cutting server load by **40%** and handling concurrent users efficiently.

### Portfolio [Live](#) · [Code](#)

React.js, Next.js, TypeScript, Tailwind CSS, Framer Motion, React Email

- Deployed optimized portfolio with **sub-1.2s load time** and **95+ Lighthouse performance score**
- Implemented scroll-aware navigation and seamless theme switching with custom **Framer Motion** animations
- Integrated automated contact form with React Email and robust CI/CD deployment pipeline on Vercel

### Grammar Checker [Code](#)

Python, PyQt6, OpenAI API

- Developed desktop grammar-checking app with tab-based **PyQt6** interface, saving users **15+ minutes** per session
- Enabled concurrent grammar-checking sessions with Python threading, reducing processing time by **35%**
- Created intuitive platform for grammar and syntax improvement, increasing content accuracy by **40%**