

Kunal Sarkar

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PROFESSIONAL SUMMARY

Software Engineer experienced in building scalable systems and user-centric applications using **Next.js, TypeScript, Express.js, and PostgreSQL**. Adept in designing clean architecture, integrating third-party services, and working with RESTful APIs. Strong foundation in system design, computer science fundamentals, structured problem-solving, and performance optimization. Familiar with GitHub Copilot, Claude, and other AI development tools.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, Python, Java, SQL

Frontend: React.js, Vite, Next.js, Redux Toolkit, Tailwind CSS, HTML5, CSS3

Backend: Node.js, Express.js, REST APIs, OAuth, JWT, Microservices

Databases: PostgreSQL, MongoDB, MySQL, Firebase, Redis

DevOps & Tools: Jest, Postman, GitHub, Docker, Agile (Scrum), Bitbucket, CI/CD

Cloud Platforms: AWS (EC2, Lambda, S3), Google Cloud Platform

PROJECTS

Vortex AI — *Next.js 15, LangChain, Convex, Clerk, IBM wxflows*

GitHub: [Vortex AI](#) **Live:** [vortex-ai.vercel.app](#)

- Built an AI chatbot powered by Claude 3.5 Sonnet with real-time tool-augmented outputs via LangGraph.
- Optimized prompt latency through caching and performance benchmarking.
- Integrated streaming logic for token-level responses and enhanced memory persistence.

Expense Tracker — *React.js, Express.js, PostgreSQL, Prisma*

GitHub: [Expense Tracker](#) **Live:** [expense-tracker.vercel.app](#)

- Developed a full-stack app with JWT-based auth, daily analytics, and custom dashboards.
- Reduced API response times by 30% through efficient ORM query design and API throttling.

PROFESSIONAL EXPERIENCE

Freelance Engineer

May 2024 – Present

- Engineered a responsive grocery e-commerce app from scratch with a payments gateway and an optimized cart flow to streamline checkout and improve usability.
- Designed and deployed a mobile-first real estate landing page with SEO enhancements and custom lead capture to increase visibility and client engagement.

Senior Analyst, Risk Advisory — Deloitte India

July 2023 – May 2024

- Automated SAP reporting with ABAP, cutting manual audit effort by 30%.
- Resolved 300+ enterprise-level SAP security issues, enhancing access governance and compliance.

Cloud Intern — Ankercloud GmbH

Nov 2022 – Apr 2023

- Built AWS Lambda functions and automated microservice workflows to support cloud-native applications.
- Set up CI/CD pipelines via Bitbucket and GitHub Actions to accelerate deployments.

EDUCATION

Bachelor's Degree in Computer Science

July 2019 – July 2023

Jain University, Bengaluru, India

CGPA: 7.0/10

Relevant Coursework: Data Structures & Algorithms, System Design, OOP, DBMS

CERTIFICATIONS & ACHIEVEMENTS

IEEE Xplore: Published paper on NLP-powered IaC chatbots

Codecademy: Learn Python 3

HackerRank: Silver Badge in SQL