KARTIKEY KUMAR

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Summary

Full Stack Developer proficient in JavaScript, TypeScript, React, Node.js, and Python. Experienced in building MERN stack applications and enhancing AI model performance through prompt engineering and evaluation. Seeking to leverage expertise in developing user-centric, scalable web solutions and AI-driven tools.

Technical Skills

- **Languages & Markup:** JavaScript (ES6+), TypeScript, Python, C/C++, HTML5, CSS3
- **Frontend:** React.js, Next.js 14, Redux, Tailwind CSS, Shadcn UI, Material UI
- **Backend:** Node.js, Express.js, REST APIs, GraphQL (Apollo), Convex, Prisma, Server Actions
- **AI & Data:** OpenAI API (GPT, Whisper), Llama, Groq, Prompt Engineering
- **Databases:** PostgreSQL (NeonDB), MongoDB, Redis
- **DevOps & Cloud:** Git, GitHub, Docker, Vercel, Netlify, AWS (S3, Lambda), Clerk Auth, Stripe, UploadThing
- **Testing:** Jest, React Testing Library
- **Methodologies:** Agile, Scrum, Test-Driven Development (TDD)

Experience

Remotasks   Nov 2023 – May 2024
AI Model Trainer (Code Understanding, Code Generation, and Code Debugging)   *Remote*
- Improved AI model performance by 30% through rigorous evaluation of 1000+ AI-generated responses.
- Engineered 200+ complex coding prompts, enhancing AI code generation accuracy by 25%.
- Elevated team performance by 20% through consistent 100% QA scores, setting new quality standards.
- Collaborated in developing innovative prompt strategies, increasing model versatility by 40%.

Yougetplaced   Sep 2022 – Dec 2022
Web Development Intern – Stack Overflow Clone Live Demo   *Remote*
- Built a MERN stack Stack Overflow clone featuring authentication, question posting, and a voting system.
- Developed a RESTful API using Node.js and Express.js for users, questions, and answers.
- Created a responsive React.js frontend with 10+ components replicating Stack Overflow's UI.
- Implemented MongoDB schemas with Mongoose ODM for efficient data management.

Projects

SpeakEasyAI (AI Video/Audio to Blog SaaS) Live Demo
Next.js 14, TypeScript, OpenAI API (Whisper & GPT), Stripe, Clerk Auth, NeonDB, UploadThing, Tailwind CSS, Shadcn UI
- Developed an AI-powered SaaS platform converting long-form video/audio into SEO-optimized blog posts.
- Integrated Whisper (using input chunking for context handling) for transcription and GPT for summarization.
- Implemented secure authentication (Clerk), file uploads (UploadThing), and subscription payments (Stripe).
- Designed an intuitive dashboard with live Markdown export and creator-style tuning.

Dev Overflow (Stack Overflow Clone) Live Demo
Next.js 14, TypeScript, MongoDB, Clerk Auth, OpenAI API, TinyMCE, Server Actions, Shadcn UI, Tailwind CSS
- Engineered a full-stack Q&A platform inspired by Stack Overflow with features like voting, tagging, and global search.
- Integrated AI functionalities via OpenAI API for debugging and code suggestions.
- Implemented secure session management and authentication using Clerk and Server Actions.
- Crafted a responsive UI supporting both light and dark modes.

Notion Clone (Jotion) Live Demo
Next.js, TypeScript, Convex (Real-time DB), Clerk Auth, EdgeStore, BlockNote Editor, Tailwind CSS
- Created a real-time collaborative notes app inspired by Notion's nested block architecture.
- Integrated drag-and-drop nested pages, file attachments, and public document sharing.
- Leveraged Convex for live database sync and Clerk for robust user authentication.
- Enhanced user experience with soft-delete features, markdown export, and full-text search.

Pathfinding Algorithm Visualizer Live Demo
React, JavaScript, Data Structures & Algorithms, CSS
- Developed an interactive React application visualizing BFS/DFS traversals on procedurally generated mazes.
- Engineered a 20x20 grid with real-time visualization, improving algorithm comprehension for over 100 users.

- Optimized performance using React hooks and state management for smooth animations.
- Implemented a recursive backtracking maze generator producing 1000+ unique mazes.

SmartBrain (Face Detection App) [Live Demo](#)

React.js, Node.js, Express.js, PostgreSQL, Clarifai API, Knex.js, Bcrypt

- Built a full-stack face detection web application with 5+ features in under 3 months.
- Integrated Clarifai API for real-time face detection on 10,000+ images with 95% accuracy.
- Enhanced security using bcrypt for password hashing, reducing unauthorized access risk.
- Optimized database queries with Knex.js, reducing app response time by 40%.

Education

Indira Gandhi National Open University   **Jul 2018 – Jun 2022**

Bachelor of Computer Applications

- Key Project: [Cineplex](#) – Developed a Java/JSP-based movie booking system using MVC pattern with JDBC and MySQL. Implemented user authentication, trailer viewing, and booking functionalities.
- Relevant Coursework: Data Structures, Algorithms, Object-Oriented Programming, Software Engineering, Computer Networks, Database Management.

Certifications & Interests

Certifications: Zero To Mastery (Complete Web Developer, Advanced JavaScript, Node.js).

Interests: Fitness (Jump Rope, Gym, Yoga), Non-fiction Reading, Anime, Continuous Learning.