

Hamza Khan

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Skills

Languages	JavaScript (ES6+), TypeScript, HTML5, CSS3
Frontend	React.js, Next.js, Redux, Tailwind CSS, React Query, Zustand, Material UI, Shadcn, Radix
Backend	Node.js, Express.js, MongoDB, Firebase (Firestore, Cloud Functions), REST APIs, MERN Stack
Tools	Git, GitHub, Figma, Stripe, WebSockets, CI/CD, GitHub Actions, Jest Testing, Unit testing, Agile Development

Professional Experience

OutlierAI Sep 2024 – Present

Contract Software Developer

- Refactored 50+ modules of junior developers' code, reducing bugs, meeting project criteria and improving runtime efficiency.
- Audited and debugged AI-generated code for compliance with performance standards, achieving 100% adherence in final deliverables.
- Enhanced Large Language Model (LLM) outputs by integrating JavaScript frameworks, leading to more accurate responses.

CodingSamurai Feb 2025 – Mar 2025

Web Development Intern

- Selected for a competitive 4-week internship focused on advanced full-stack development, contributing to live projects under mentorship.
- Developed a Full-stack e-commerce MERN application with JWT authentication, Redux state management, and Stripe payment integration.
- Engineered a WebSockets-based Full-stack MERN chat app using Socket.IO, enabling real-time communication between users.

DataAnnotation Apr 2024 - Sep 2024

Web Developer - AI Trainer

- Designed JavaScript and TypeScript coding prompts to train AI chatbots in solving algorithmic and real-world programming problems.
- Evaluated AI-generated code for correctness and adherence to JavaScript/TypeScript best practices leading to refined LLM outputs.
- Authored clear technical explanations for code solutions to improve the chatbot's instructional logic and user-facing clarity.

Projects

AI Chat Assistant

TypeScript | React | Express | Node | MongoDB | Tailwind CSS | React Query | Shadcn | CI/CD | GitHub Actions | AWS EC2 | Unit Testing | Jest

- Developed an AI-powered application using the MERN stack, integrating Google Gemini AI to generate context-aware multi-modal responses.
- Created secure authentication via Clerk and JWT, with role-based access control and real-time chat synchronization using React Query.
- Engineered responsive UI components (collapsible sidebar, image uploads) using Image Kit and Tailwind CSS for accessibility and performance.
- Implemented automated CI/CD pipeline using GitHub Actions, enabling continuous integration and deployment to AWS EC2 Services.
- Integrated automated Jest testing for critical components (real-time chat, API endpoints) reducing bugs and streamlining development.

E-commerce Platform

Next.js | TypeScript | Firebase | Stripe | NextAuth | Zustand | Tailwind CSS | Shadcn UI | CI/CD | Vercel

- Engineered a fully responsive Amazon clone using Next.js, TypeScript, Firebase and Tailwind CSS with mobile-first design principles.
- Implemented secure user authentication with NextAuth, supporting multiple providers (Google, GitHub) and session management.
- Simulated Stripe payment processing with Web-Hooks handling for secure checkout flow and order management.
- Created a scalable product catalog system with Firebase Firestore database storage and DummyJSON API integration for product data.
- Deployed application using Vercel with CI/CD pipeline for automated builds on each commit, and Zustand for global state management.

Social Platform

Next.js | TypeScript | Firebase | Cloudinary | Tiptap | Radix UI | Shadcn UI | Recharts | Unit Testing | Jest | CI/CD | Vercel

- Engineered a role-based blog platform with Context API and Firebase Auth for admin/user permissions, with Firestore for database storage.
- Integrated Tiptap rich-text editor with Cloudinary image uploads server side, character limits, and dynamic HTML sanitization.
- Designed social feeds with dynamic user profiles and interactions, including CRUD operations, likes, follows and category filtering.
- Developed a complex admin dashboard, integrating REST APIs, analytics and data visualization with Recharts.
- Implemented Jest unit testing for core utilities and API endpoints to ensure functional reliability and scalability.

Education

FreeCodeCamp Jun 2024 - Jul 2024

Certifications: Responsive Web Design & JavaScript Algorithms

- Web Development | HTML | CSS | JavaScript

Brunel University Sep 2022 - Sep 2023

MA Digital Games: Theory & Games Design

- Game Development | Unity Engine | C#

Brunel University Sep 2018 - Sep 2021

Computer Science BSc: Second Class Honours

- Software Development | Java | SQL