Sheraz Hassan

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Experienced Full Stack Engineer and Backend Developer with 7+ years of success in building and deploying high-performance web applications, scalable APIs, and cloud-native platforms. Specialized in the **MERN stack (MongoDB, Express.js, React, Node.js)** with strong expertise in developing **SSR boilerplates** using Next.js and performance-optimized SPAs.

Proven track record of designing modular, maintainable architectures with clean RESTful APIs and secure authentication workflows. Proficient in full lifecycle development—from architecture to deployment—using tools like **Docker, Kubernetes, and CI/CD pipelines** for automation and scaling.

Strong command of asynchronous programming, third-party API integrations, and real-time systems using WebSockets. Passionate about **AI/ML integration**, well-versed in **GenAI tools such as LangChain, vector databases**, and prompt engineering for intelligent agent systems. Known for cross-functional collaboration, agile delivery, and thoughtful, business-aligned engineering practices.

CORE COMPETENCIES

• JavaScript (ES6+), TypeScript • React.js • Next.js (SSR/SSG) • Node.js • Express.js

• RESTful & GraphQL APIs • MongoDB • PostgreSQL • Mongoose & Prisma ORM

• Redux Toolkit Zustand • React Query • Tailwind CSS • Chakra UI • Component Libraries (Material UI, AntD)

• Server-Side Rendering (SSR) • Full-stack Boilerplates • JWT/OAuth • Role-Based Access Control

• Docker • Kubernetes • CI/CD (GitHub Actions, Jenkins) • NGINX • Vercel & Netlify

• AWS (Lambda, S3, EC2) • Firebase (Auth, Firestore, Hosting) • GCP (Cloud Functions)

• Agile / Scrum • Git & GitHub • Jira / ClickUp • Postman / Swagger

• GenAI (LangChain, Gemini, OpenAI APIs) • Prompt Engineering • Vector DBs (Pinecone, Weaviate)

• RAG Pipelines • LLM Integration • WebSockets • Real-time Systems • Unit & E2E Testing (Jest, Cypress)

Professional Experience:

AUG 2022 – PRESENT

Senior Full Stack Engineer /Cybernef Technologies, CA, -US (Remote)

- Developed and maintained full-stack applications using the **MERN stack (MongoDB, Express.js, React.js, Node.js)** with TypeScript, driving feature delivery across core trading and analytics modules.
- Built secure and scalable **RESTful and GraphQL APIs** with **JWT/OAuth2** authentication, reducing integration time for internal and partner tools by 30%.
- Integrated **Next.js with SSR** for SEO-optimized dashboards, improving initial load times and Core Web Vitals across critical pages.
- Engineered AI-powered features using **LangChain**, **OpenAI**, and **vector databases (Pinecone)**, enabling intelligent document and insight retrieval for research and operations teams.
- Migrated legacy monoliths into **containerized microservices** on **Kubernetes**, with **Helm charts** for reproducible deployments, improving system scalability by 45%.
- Implemented logging and observability via **Prometheus, Grafana, and Sentry**, cutting incident response time and improving system transparency.
- Designed and maintained **CI/CD pipelines** using **GitHub Actions** and **Jenkins**, reducing deployment time by 60% and increasing engineering velocity.
- Collaborated closely with data scientists to design and deploy **RAG pipelines**, **prompt engineering** patterns, and scalable GenAI features for high-traffic client-facing applications.
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MAY 2021 – AUGUST 2022

Full Stack Developer / TeamLogic IT, CA, US (Remote)

- Rebuilt legacy SAS analytics workflows using modern **JavaScript/TypeScript** pipelines and **Node.js** scripting, significantly improving performance and maintainability.
- Enhanced reporting by integrating **Snowflake** queries into **React-based dashboards**, and automating data exports to Excel and CSV using **Node.js and Serverless functions**.
- Partnered with data engineering teams to refactor legacy ETL logic using **MongoDB Aggregation**, **AWS Lambda**, and **custom Node.js workers**, resulting in a 35% boost in processing efficiency.
- Developed and maintained full-stack applications with **React.js (frontend)** and **Node.js/Express (backend)**; implemented SSR using **Next.js** to optimize rendering and improve SEO.
- Containerized applications using **Docker** and deployed microservices on **Kubernetes (AWS EKS, Heroku)**, improving reliability and scalability by 50%.
- Built **real-time analytics dashboards** using **WebSockets** and **Redis Pub/Sub**, enabling live updates across operational tools.

April 2018 – June 2021

Software Engineer / Envivent, ,Laguna Hills, CA

- Developed and maintained **Node.js-based backend services** for fintech platforms, ensuring performance and reliability across high-volume APIs.

- Led efforts in migrating applications from a monolithic architecture to **microservices** using **Express.js**, improving code modularity, maintainability, and deployment scalability.
- Integrated monitoring and performance tracking using **Datadog**, **Sentry**, and custom middleware logging, reducing API downtime and improving alert response times.
- Built **RESTful APIs** for third-party **payment gateway integrations** (e.g., Stripe, PayPal), enhancing modularity and reusability across services.
- Designed and implemented secure **authentication and authorization flows** using **JWT** and **OAuth2**, ensuring compliance and user data protection.
- Reduced deployment issues by creating **automated testing** suites using **Jest**, **Supertest**, and **Playwright**, and integrated them into **CI/CD pipelines** via **GitHub Actions** and **Dockerized workflows**.
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Full Stack Projects:

Various projects focusing on healthcare, booking systems, legal tech, and more, utilizing modern frameworks and technologies

- https://clinic.yolohealth.app/
- https://ticketbro.io/
- https://phantombuster.com/
- https://www.matchstathub.com/
- https://popl.co/
- https://thrive.app/
- https://tapni.com/
- https://www.tilby.com/en/home/
- https://www.sharry.tech/
- https://www.famoco.com/
- https://www.nfc21.de/

Education
Sep 2017

Bachelor of computer Science