

MUHAMMAD ASIM

Software Engineer | Next.js • MERN • DevOps • Agentic AI

Lahore, Pakistan | +92-343-1611587 | mazammasim@gmail.com

linkedin.com/in/muhammadasim-b011852b5 | github.com/Asim12312 | dev-asim-portfolio.vercel.app

PROFESSIONAL SUMMARY

Software Engineer shipping production web applications in Next.js 15, React 19, TypeScript, and the MERN stack at VentureDive. Owns features end to end — RESTful API design and MongoDB data modeling through to containerized deployment, authoring Dockerfiles and configuring CI/CD pipelines. Hands-on with RAG pipelines and Agentic AI. BS Software Engineering, CGPA 3.60/4.00. Seeking a Junior / Associate Software Engineer role.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript 5, Python, Java, C++, SQL, HTML5, CSS3

Frontend: Next.js 15 (App Router, SSR/SSG, ISR), React 19, Redux, Zustand, Tailwind CSS 4, Material UI, Responsive Design

Backend: Node.js, Express.js, RESTful API Design, JWT Authentication, Socket.io, Webhooks, Mongoose

Databases: MongoDB, MySQL, Mongoose, Data Modeling, Query Optimization, Redis Caching

DevOps & Cloud: Docker, Containerization, CI/CD Pipelines, GitHub Actions, Git/GitHub, AWS, Vercel, Render, Linux, Secrets Management, Automated Deployments

AI & Automation: RAG Pipelines, LLM Integration, Agentic AI, Prompt Engineering, Vector Search

Testing & Tools: Jest, Selenium WebDriver, Postman, Agile/Scrum, Jira, HubSpot CMS

PROFESSIONAL EXPERIENCE

Software Engineer Intern — VentureDive

Feb 2026 – Present

Lahore, Pakistan

- Built a client-facing **AI-powered call intelligence platform** for GCC and Pakistan markets using Next.js 15 App Router with server components, cutting initial page load time through SSR and route-level code splitting.
- Engineered **RAG pipelines** for intelligent document search and workflow automation, integrating vector retrieval with LLM APIs to surface relevant context in real time.
- Integrated **HubSpot CMS** (HubDB, CRM Forms) with a webhook-driven cache invalidation layer, keeping marketing content in sync without redeployments.
- Designed and maintained **RESTful APIs** with Node.js and Express against MongoDB, applying schema validation, indexing, and error-handling middleware.
- Configured **CI/CD pipelines** and containerized deployments, managing environment variables and secrets across staging and production; worked in Agile sprints with peer code review.

Freelance Web Developer (Part-Time) — Upwork

2023 – 2026

Remote | Client work delivered alongside full-time BS Software Engineering studies

- Delivered full-stack web applications for international clients using **React.js, Next.js, Node.js, Express.js, and MongoDB**, from requirements gathering through production deployment.
- Built **AI chatbots and automation agents** with Python and modern AI APIs, automating repetitive client workflows via REST APIs and webhooks.
- Implemented **JWT authentication and role-based access**; deployed and scaled backend services on **AWS** and modern hosting platforms.

KEY PROJECTS

ChefOS — Real-Time Restaurant Operations Platform

2026

React.js • Node.js • Express.js • MongoDB • Socket.io • JWT • Redux • Docker | Live: chefos.pro | github.com/Asim12312/ChefOS

- Built a full-stack real-time dashboard with **role-based access control** (admin, manager, staff) and live order synchronization via Socket.io across kitchen, billing, and inventory modules.
- Managed complex multi-user state with **Redux and Context API**; designed JWT-secured RESTful APIs.
- Authored the **Dockerfile** and configured a **CI/CD pipeline** for automated build-and-deploy on every push to main.

Muhasib — FBR E-Invoicing & Tax Compliance SaaS

2026

Next.js 15 • TypeScript • Node.js • MongoDB • JWT • Tailwind CSS | Live: mohasib.online | github.com/Asim12312

- Architected a multi-tenant **B2B SaaS** that automates FBR e-invoicing and tax compliance for Pakistani businesses, built end-to-end on Next.js 15 App Router with TypeScript.
- Designed a pluggable **FBR adapter layer** that abstracts government API integration, isolating third-party schema changes from core business logic.
- Implemented **bulk CSV import** with row-level validation, plus a real-time **compliance dashboard** (JWT role-based access, MongoDB aggregation) with a **bilingual English/Urdu RTL UI**.

StudentSphere — University Ecosystem Platform

2025

React.js • Node.js • Express.js • MongoDB • Socket.io • Stripe | github.com/Asim12312/student-sphere-app

- Developed a full-stack university portal with club management, **Socket.io** real-time chat and notifications, academic forums, and a peer-to-peer marketplace with **Stripe payment integration**.

EDUCATION

BS Software Engineering — University of Central Punjab (UCP), Lahore | CGPA: 3.60 / 4.00

Nov 2022 – Jul 2026