

Ali Hamza | Full Stack Web Developer

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Portfolio: Ali Hamza

Education

COMSATS University Islamabad Lahore Campus

Bachelor's in Computer Science

Skills Summary

- **Languages** HTML, CSS, JavaScript, TypeScript, Python, SQL, Java
- **Frameworks** Node.js Express.js, Next.js, FastAPI, Prisma
- **Libraries** React.js, Bootstrap, Tailwind CSS, Redux Toolkit, RTK Query
- **Databases** PostgreSQL, MongoDB, Firebase Firestore / Realtime DB, SQL, Prisma, Mongoose
- **Cloud & Devops** Docker, CI/CD, GCP Cloud Run, Github Actions, AWS EC2
- **Additional Skills** Stripe, Azure Devops Server, Git/GitHub, Material UI, Swagger, TSOA, Whisper API, GPT 3.5 Turbo APIs, Socket.io

Work Experience

Associate Software Engineer (MERN / PERN Stack) | [Sortup](#)

December 2024 | March 2026

- Deployed and maintained a production **Node.js backend** on **Google Cloud Platform** with an automated CI/CD pipeline using **GitHub Actions** for seamless build, testing, and deployment.
- Developed **pixel-perfect frontend interfaces** from design specifications and implemented **complex state management** for scalable and maintainable UI.
- Integrated frontend with backend APIs, handling asynchronous data fetching, error states, and efficient state management with tools like Redux or React Context.
- Enhanced performance and UX, including lazy loading of images and components, smooth page transitions, and optimizing frontend rendering for faster load times.
- **Optimized reels and image loading performance** on backend, and developed an **e-wallet API** system with a **referral commission feature**. Designed and managed APIs and system flows, collaborating closely with frontend engineers to ensure seamless integration and feature delivery.
- Designed and implemented a country-specific **abstraction layer** for payment and delivery third-party APIs, enabling seamless integration across three international markets with localized provider support.
- Participated in team meetings to solution-design technical requirements and project workflows, spanning both frontend and backend concerns.
- Managed production deployments of Node.js/Express apps on **AWS EC2**, including performance monitoring, troubleshooting.
- Implemented and maintained **Stripe webhooks** for payments ensuring secure validation, idempotency, and error handling.
- Executed S3 bucket data migrations and lifecycle management for production data workloads.

Commit Stash | Web Developer

June 2024 | November 2024

- Designed and implemented dynamic **React components** to create responsive and interactive user interfaces.
- Developed robust API endpoints for CRUD operations, user authentication, and real-time data handling.
- Integrated authentication and authorization systems, including JWT-based sessions and Firebase Auth, ensuring secure user access.
- Modeled database schemas and implemented efficient queries in MongoDB to support scalable applications.
- Managed deployment pipelines to production environments on platforms like Vercel, AWS, or Firebase Hosting.

- Collaborated with cross-functional teams to translate requirements into technical solutions, ensuring seamless integration between frontend and backend.
- Implemented error handling and logging mechanisms to improve maintainability and debugging.

Client's Portfolio | Upwork

18 Jan, 2024 | 28 Jan, 2024

- Developed a responsive portfolio website for a Client using MERN Tech Stack.
- Ensured seamless navigation and optimal performance across all devices.

Projects

AI Virtual Try-On Platform (Dress Genie) | Final Year Project | [Demo](#)

- **Tech Stack:** PERN (PostgreSQL, Express, React, Node.js), Python, Hugging Face, GPU Deployment, Open Source AI Models
- Built a full-stack AI-powered virtual try-on web application enabling users to visualize clothing on their own photos.
- Evaluated and benchmarked multiple open-source AI models for image generation, pose transfer, and virtual try-on to select the most accurate models.
- Deployed selected models on Hugging Face GPU infrastructure and exposed them via APIs for scalable inference.
- Designed independent AI pipelines for three core functionalities: virtual try-on, pose transfer, and AI image generation.
- Implemented backend services in Node.js/Express to orchestrate model inference, image processing, and API communication.
- Developed a React-based frontend allowing users to upload images and visualize real-time AI-generated results.
- Optimized the workflow to blend garment and human images seamlessly using AI-based image synthesis techniques.

Achievements

Winner – Visio Spark Web Development Hackathon, conducted by COMSATS University Islamabad – Wah Campus.

Certifications

Full Stack Web Development Bootcamp by Dr. Angela Yu 2022 | Udemy | [Link](#)