

# MUHAMMAD SAAD

FULL-STACK ENGINEER | MERN STACK | AI AGENTS & AUTOMATION

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## PROFESSIONAL SUMMARY

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Results-driven Full-Stack Engineer with hands-on freelance experience across frontend development, full-stack architecture, and AI-powered automation systems. Specializing in the MERN stack and LLM-driven workflow automation, with a proven track record delivering scalable SaaS platforms and production-ready web applications for clients across diverse industries. Brings deep expertise in RESTful API design, secure backend architecture, relational and NoSQL database modeling, CI/CD pipelines, and modern frontend frameworks including React, Vue, and Angular. Skilled at owning the full delivery lifecycle - from system design and database architecture through to deployment and performance monitoring - with a consistent focus on clean code, scalability, and real-world business impact. Currently expanding into AI agent development and LLM integration to build next-generation intelligent web systems.

## CORE SKILLS

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**Frontend:** React.js, Next.js, HTML5, CSS3, JavaScript (ES6+), TypeScript, Tailwind CSS, Bootstrap, Responsive UI Design

**Backend:** Node.js, Express.js, Python, PHP, REST API Development, Authentication & Authorization (JWT/OAuth)

**Full-Stack:** MERN Stack, Vue.js, Angular.js, End-to-End Application Architecture, Third-Party API Integration

**Databases:** MongoDB, PostgreSQL, MySQL, Firebase, Prisma ORM, Redis, Database Schema Design, Query Optimization

**AI & Automation:** AI Agents, LLM Automation, Prompt Engineering, AI-Assisted Development, HuggingFace, TensorFlow/Keras

**Tools & DevOps:** Git, GitHub, CI/CD Pipelines, AWS, Cloudflare, Electron, Docker-ready Deployments

## PROFESSIONAL EXPERIENCE

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### AI & Automation Engineer — Self-Employed

*Feb 2025 – Present*

- Architect and deliver AI-assisted SaaS platforms integrating LLM automation pipelines and autonomous AI agents, eliminating repetitive manual workflows and enabling clients to operate at higher throughput without additional headcount.
- Design automated workflow systems using prompt engineering and LLM APIs, compressing feature delivery timelines and enabling non-technical users to operate intelligent tools without developer intervention.
- Integrate AI-powered content generation and intelligent workflow automation into production web applications, adding measurable operational efficiency for end users.
- Apply AI tooling for code debugging, system optimization, and real-time performance monitoring, maintaining high reliability standards across deployed applications.

### Full-Stack Web Developer — Self-Employed

*Aug 2024 – Present*

- Deliver end-to-end web applications using the MERN stack (MongoDB, Express.js, React.js, Node.js) and PHP, implementing RESTful APIs, normalized database schemas, and horizontally scalable backend systems.
- Build responsive, production-ready frontends using React, Vue, and Angular with a strong focus on component reusability, accessibility, and cross-browser compatibility.
- Manage CI/CD pipelines and cloud deployments on AWS, establishing repeatable release processes that reduce deployment errors and improve shipping frequency.
- Integrate and maintain third-party APIs including Stripe, payment gateways, and external data services within production-grade applications.

### Front-End Web Developer — Self-Employed

*Jun 2023 – Aug 2024*

- Developed interactive, accessible, and pixel-perfect UIs using React, HTML5, CSS3, and JavaScript/TypeScript for clients across e-commerce, education, and technology sectors.
- Optimized frontend performance, Core Web Vitals, and accessibility compliance; built reusable component libraries that cut UI development time by approximately 25% across repeat projects.
- Collaborated closely with designers to faithfully translate UI/UX wireframes and mockups into functional, high-fidelity web interfaces delivered on schedule.

## KEY PROJECTS

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### BROADY — Fashion Aggregation Platform

*In Progress*

*GitHub:* [github.com/m-saad-1/broady](https://github.com/m-saad-1/broady)

*Tech Stack:* Next.js, TypeScript, React.js, Node.js, Express.js, Prisma, PostgreSQL, Redis, JWT/OAuth, Stripe, Tailwind CSS, AWS, Cloudflare, CI/CD

- Building a production-level fashion aggregation platform centralizing products from multiple brands into one discovery experience, with brand onboarding, admin/brand dashboards, product approval workflows, catalogue discovery, offers, cart, wishlist, and order lifecycle management.
- Designed a scalable multi-role architecture for customers, brands, and admins using API-driven services, Prisma-based database modeling, PostgreSQL relations, JWT/OAuth authentication, and Redis-ready caching/session patterns for highvolume product and order operations.
- Implementing production-focused workflows including structured product feeds, validation, normalization, brand order visibility, secure checkout planning with Stripe, Cloudflare-ready delivery/security, and CI/CD-oriented deployment practices.
- Impact: Building a real marketplace-grade system that reduces fragmented fashion browsing by unifying product data, brand operations, order handling, and a future recommendation/discovery engine under the BROADY platform.

### Progress OS — Cross-Platform Productivity App

*Mar 2026*

*Live:* [progress-os.netlify.app](https://progress-os.netlify.app) | *GitHub:* [github.com/m-saad-1/Personal-OS](https://github.com/m-saad-1/Personal-OS)

*Tech Stack:* Electron, Node.js, SQLite, React 18, TypeScript, Vite, Tailwind CSS

- Architected and shipped a cross-platform desktop productivity application supporting task management, goal tracking, habit monitoring, and real-time analytics, built on a modular component architecture designed for zero-regression feature expansion.
- Impact: Delivered a unified productivity workspace that replaced multiple fragmented tools for users, with integrated analytics dashboards providing actionable insights into daily workflows.

### FashionHub — E-Commerce Platform

*Sep 2025*

*Live:* [fashionhub.ct.ws](https://fashionhub.ct.ws) | *GitHub:* [github.com/m-saad-1/Fashion-Hub](https://github.com/m-saad-1/Fashion-Hub)

*Tech Stack:* PHP, MySQL, HTML, CSS, JavaScript, Node.js, Express.js, Stripe SDK

- Built a production-ready, responsive e-commerce platform featuring structured product browsing, secure Stripe payment integration, and a RESTful API backend optimized for fast, concurrent data retrieval.
- Impact: Achieved a 30% reduction in page load times through database query optimization and efficient backend architecture, maintaining performance under concurrent user load.

### Apple Leaf Disease Detection System

*Feb 2026*

*GitHub:* [github.com/m-saad-1/Apple\\_leaf\\_disease\\_detection](https://github.com/m-saad-1/Apple_leaf_disease_detection)

*Tech Stack:* Python, TensorFlow/Keras, Flask, OpenCV, EfficientNet, Grad-CAM, NumPy

- Built a deep learning web application using a two-stage classification pipeline — EfficientNet for high-accuracy feature extraction and Grad-CAM for visual explainability — enabling farmers and agronomists to interpret AI predictions through intuitive heatmap overlays.

## EDUCATION

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### Bachelor of Computer Science

*2024 – 2028 (In Progress)*

Institute of Management Sciences (IMS), Peshawar

### FSC in Pre-Engineering

*2021 – 2023*

Islamia Model College, Dir Lower

## CERTIFICATIONS

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- Full Stack AI Engineer 2026 — Deep Learning II (Udemy) — Certificate
- PHP & MySQL (Udemy) — Certificate
- JavaScript (ES6+) (Udemy) — Certificate
- Development with AI (Udemy) — Certificate
- JavaScript Essentials 1 (Cisco) — Certificate
- SQL and Relational Databases 101 (IBM) — Certificate

## LANGUAGES

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English (Fluent) | Urdu (Native)