

**MUHAMMAD AHMAD SIDDIQUI**  
**SOFTWARE ENGINEER**

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Full stack developer with a proven track record of building 13+ production applications, including AI-powered platforms, mobile apps, and enterprise solutions. Expertise in React ecosystem and Python backend frameworks (Django, FastAPI), with hands-on experience in AI/ML integration, RAG systems, and scalable API development. Committed to delivering end-to-end solutions that drive business growth and enhance user experiences.

## EXPERIENCE

### TRON AI

Lahore, Pakistan

#### Full Stack Developer

(Full-time) 11/2024 – Present

- **Creative Wind Tunnel (Next.js + Tailwind CSS | Python + FastAPI):** AI-powered market intelligence platform with frontend for interactive simulations and a Python backend implementing predictive analytics models, persona generation algorithms, and A/B test simulation engines. Integrated LLM APIs for market analysis and built RESTful endpoints for real-time performance predictions.↗
- **RAG Knowledge Assistant (Next.js + Tailwind CSS | Python + FastAPI):** Enterprise chatbot platform with React-based admin dashboard and Python backend featuring RAG pipeline implementation using vector databases, document processing with LangChain, custom AI model training endpoints, and Power BI integration APIs for analytics visualization.
- **Facebook Ads Automation Suite (Next.js + Tailwind CSS | Python + Django):** End-to-end advertising automation with Next.js frontend and Django backend managing Facebook Graph API integration, AI image generation using Stable Diffusion, agentic workflow orchestration, automated campaign deployment, real-time metrics tracking, and intelligent budget optimization algorithms.↗
- **Digital Property Hub (Next.js + Tailwind CSS | Python + Django):** Multi-role property management platform with a responsive frontend and Django backend featuring AI-powered document classification using computer vision, photo processing pipelines for inventory cataloging, role-based access control, and RESTful APIs for property data management across multiple user types.
- **RenovaWise (Next.js + Tailwind CSS | Python + FastAPI):** Real estate investment platform with interactive frontend and Python backend implementing automated property analysis algorithms, renovation cost estimation models, ROI calculation engines, and data aggregation APIs for market insights.↗
- **Contact Lens Medical Platform (Next.js + Tailwind CSS | Python + FastAPI):** Comprehensive medical platform with admin dashboard and patient portal frontend, coupled with Python backend featuring AI-powered diagnostic models for eye care analysis, secure patient data management with HIPAA considerations, and consultation scheduling APIs.↗
- **Frugal Fox AI App (React Native + Expo | Python + FastAPI):** Cross-platform mobile app with React Native frontend and Python backend implementing computer vision models for product recognition, web scraping pipelines for real-time price aggregation across 10+ retailers, gamification logic, and user savings tracking APIs.↗
- **KIMO Trip Planner (Next.js + Tailwind CSS | Python + Django):** Travel planning platform with interactive frontend and Django backend featuring activity recommendation algorithms, demographic-based filtering systems, itinerary generation logic using LLMs, and location data APIs for personalized travel experiences.↗
- **PRD Generator (Next.js + Tailwind CSS | Python + FastAPI):** AI-driven documentation tool with guided Q&A frontend and FastAPI backend implementing LLM prompt engineering for document generation, template management systems, and structured output parsing, reducing documentation time by 70%.↗
- **Deep Fake Detection App (React Native + Expo | Python + FastAPI):** Mobile security application with React Native frontend and Python backend deploying machine learning models (TensorFlow/PyTorch) for multimedia authentication, file processing pipelines for audio/video/image

analysis, and confidence scoring APIs.

- **Facebook Ads Chatbot (Next.js + Tailwind CSS | Python + FastAPI):** Marketing automation chatbot with conversational frontend and FastAPI backend managing Facebook Marketing API integration, campaign optimization algorithms, real-time analytics processing, and ad spend tracking systems. ↗
- **Trading Chrome Extension (JavaScript):** Browser-based trading companion offering live market analysis, technical indicators, and subscription-based premium features with integrated Stripe payment processing.
- **Muse-AI Journal App (React Native + Expo | Python + FastAPI):** AI-enhanced journaling app with mobile frontend and Python backend implementing mood analysis using NLP models, automated insight generation, sentiment tracking algorithms, and RevenueCat integration for subscription management.

## One Machine Software

*Full Stack Developer*

Lahore, Pakistan

*(Full-time) 09/2024 – 11/2024*

- Built Rx-Copilot, a React-based medical coaching chatbot with a Python backend for automated student support and AI response generation.
- Contributed to an Angular-based appointment booking system with a Node.js backend, focusing on user-friendly interfaces and booking management APIs.

## Nova Software Solution

*Front-end Developer*

Lahore, Pakistan

*(Internship) 07/2024 – 09/2024*

- Developed a **Web-OS 3.0** app using Node.js, React, and Web-OS SDK for LG Smart TVs: managed emulator setup, service integration, and app packaging.

## EDUCATION

**Punjab University College of Information Technology (CGPA: 3.13)**

*Bachelor's in Computer Sciences*

Lahore, Pakistan

*Graduation date: July 2024*

## SKILLS

- **Languages/Frameworks:** JavaScript, TypeScript, Python, React.js, React Native, Next.js, Node.js, Django, FastAPI
- **Frontend:** Tailwind CSS, Bootstrap, Expo, Responsive Design
- **Backend:** RESTful APIs, Database Design, Authentication, WebSockets
- **AI/ML:** LangChain, RAG Systems, Vector Databases, LLM Integration, TensorFlow, PyTorch, Computer Vision, NLP
- **Tools/Integrations:** Stripe, RevenueCat, Git, Chrome Extensions, Web-OS SDKs, Facebook Graph API
- **Deployment/Hosting:** Vercel, GoDaddy, Spaceship, Namecheap, AWS (EC2, S3), Google Cloud Platform, Heroku, Render, Railway

## ACADEMIC PROJECTS

- **FYP: ADMISSION NAVIGATOR** Streamlined university admissions and scholarships using Python for web scraping and machine learning for student counseling. Implemented MVC architecture.  
**Tools:** GitHub, Visual Studio, Kaggle, ASP.NET.
- **Real-Time Chat Application:** Created a real-time chat app with React and Socket.io, supporting direct messaging and chat room features.

## CERTIFICATIONS

- *HTML, CSS, and JS for Web Developers from Coursera*
- *JavaScript (Basic) HackerRank*