

Syed Wajid Shah

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PROFESSIONAL SUMMARY

AI/ML-oriented Software Engineer with approximately 4 years of experience building production software, intelligent product workflows, and data-driven applications across education and healthcare. Experienced in agentic AI-assisted systems, personalized recommendation workflows, machine-learning applications, API-driven AI integrations, and translating model or rules-engine outputs into reliable user-facing products. Contributed to an AI-powered career and education platform with profile-fit recommendations, skill-gap analysis, pathway guidance, and personalized opportunities, and to an AI-enabled ambulatory-care platform with risk, care-gap, and intervention workflows. Strong foundation in Python, machine learning, React/Next.js, APIs, databases, and modern AI development tools, with research interests in recommender systems, intelligent decision support, healthcare AI, and educational AI.

WORK EXPERIENCE

TGI Pakistan

03/07/2023 - Present

Software Engineer - AI/ML & Intelligent Systems

- Contributed to production AI-enabled products in education and healthcare, connecting intelligent recommendation, rules-engine, analytics, and decision-support workflows with scalable application services.
- Worked on Career Dots / VEGA, an AI-powered career and education platform that personalizes career paths, colleges, scholarships, opportunities, and education plans using profile data, assessments, interests, skills, goals, activities, location, and career preferences.
- Supported agentic advisor and recommendation workflows including profile-fit reasoning, skill-gap identification, alternative pathways, qualification matching, transcript/education signals, and personalized opportunity discovery.
- Contributed to DocLinQ, an AI-powered ambulatory-care platform, integrating product workflows around risk levels, prioritized care gaps, suggested interventions, patient segmentation, quality measures, and clinical analytics.
- Integrated backend APIs and structured application data for AI-assisted features while collaborating on API contracts, authentication, data consistency, and production integration reliability.
- Used GitHub Copilot, Claude, and ChatGPT in agentic development workflows for implementation planning, code generation, debugging, refactoring, documentation, and engineering productivity.

Pak Soft Technology

16/12/2022 - 31/05/2023

Intern Software Engineer

- Developed data-driven web applications and reusable components using JavaScript and React.js.
- Integrated APIs, implemented responsive application workflows, and improved code quality through reusable architecture.
- Built a strong software-engineering foundation in application logic, debugging, performance optimization, and collaborative development.

EDUCATION

Lahore Garrison University

10/10/2020 - 16/07/2024

BS Computer Science

Gold Medalist

SELECTED AI / ML PROJECTS

Career Dots / VEGA - Agentic Career & Education Intelligence

TGI Project

- Worked on personalized recommendation experiences spanning careers, alternative pathways, colleges, scholarships, activities, and opportunities.
- Used multi-signal profiles - assessments, skills, interests, goals, education, activities, location, and career preferences - to support recommendation and profile-fit workflows.
- Contributed to AI-advisor style interactions, skill-gap guidance, qualification matching, pathway reasoning, and personalized next-step recommendations.

DocLinQ - AI-Enabled Ambulatory Care Platform

10/2024 - Present

- Contributed to intelligent healthcare workflows involving risk stratification, care-gap prioritization, suggested interventions, patient segmentation, quality measures, and analytics.
- Built and integrated dashboards for doctors, patients, front desk, and practice-management workflows that surface backend intelligence and real-time operational data.
- Integrated APIs and structured state/data flows for reliable communication between application modules and healthcare services.

Meddico - Disease Prediction with Machine Learning

11/2023 - 05/2024

- Built a symptom-based disease prediction system using ensemble learning and supervised classification techniques.
- Implemented and evaluated models including Decision Trees and Random Forest classifiers with data preprocessing to improve predictive performance.
- Developed a Flask-based prediction service and a React Native mobile interface for symptom input and prediction results.

TECHNICAL SKILLS

AI / ML: Machine Learning, Random Forest, Decision Trees, Ensemble Learning, Classification, Data Preprocessing, Recommendation Systems

Agentic & Generative AI: Agentic AI workflows, AI-assisted engineering, GitHub Copilot, Claude, ChatGPT, prompt-driven development

Programming: Python, JavaScript, TypeScript, SQL, Node.js

AI Product Integration: REST APIs, OpenAPI workflows, backend integration, structured data flows, authentication, model/rules-engine output integration

Frontend / Mobile: React.js, Next.js, React Native, Tailwind CSS, MUI, PrimeReact, ShadCN UI

Data & Backend: Flask, MongoDB, MySQL, MSSQL, API development and integration

Engineering: Git, GitHub, Agile collaboration, component architecture, debugging, performance optimization

RESEARCH INTERESTS

Machine Learning • Recommender Systems • Agentic AI • Intelligent Decision Support • Healthcare AI • Educational AI • Human-Centered AI • Applied AI Systems

ADDITIONAL SOFTWARE PROJECTS

Crypto Wiz Guy LLC

04/2024 - 09/2024

- Built a cryptocurrency investment calculator and supporting API integrations for data-driven return estimation and transaction workflows.
- Worked across application logic, databases, backend APIs, and frontend integration.

Mable - Empowering Young Women to Pursue Engineering

09/2024

- Developed a full-stack platform using React.js/Vuetify with Node.js, MongoDB, and Google Sheets API integration.
- Implemented data-management workflows and responsive application experiences for an engineering-education initiative.

AWARDS

Gold Medalist - BS Computer Science, Lahore Garrison University

Vice Chancellor's Award - Lahore Garrison University

Received 1x Vice Chancellor's Award and 4x Dean's Award for academic excellence and leadership.