

# Ahmad Hassan Rafique

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## EDUCATION

### University of Engineering & Technology (UET)

Bachelor of Science in Computer Science

Lahore, Pakistan

Expected 2027

**Relevant Coursework:** Web Technologies, Operating Systems (IPC, Memory Mgmt), HCI, Database Systems.

## TECHNICAL SKILLS

**Languages:** JavaScript (ES6+), Python, C++, SQL, HTML5, CSS3

**Frontend:** React.js, React Native, Streamlit, Bootstrap, Figma

**Backend:** Node.js, Express.js, MongoDB, MySQL, PostgreSQL

**Data & AI:** XGBoost, Random Forest, Regression Analysis, Scikit-Learn

**Tools:** Git, GitHub, Postman, Linux/Bash, Agile/Scrum

## EXPERIENCE

### Freelance Full Stack Developer

Self-Employed

Jan 2026 – Present

Lahore, Pakistan

- Developing a cross-platform mobile application using **React Native** (Frontend) and **Node.js** (Backend).
- Architected a **MySQL** database schema to handle secure transaction logs and complex user data relationships.
- Lead client requirement sessions to define technical feasibility, timelines, and UI/UX deliverables.

## KEY PROJECTS

### Smart Energy Consumption Predictor | Python, Streamlit, XGBoost

- Engineered an ML-powered application to forecast electricity usage patterns.
- Built an interactive dashboard using **Streamlit** for real-time data visualization and trend analysis.
- Optimized **Random Forest** and **XGBoost Regression** models to maximize prediction accuracy.

### Project Griffins (AI Budget Tracker) | MERN Stack, Team Lead

- Architected the backend infrastructure and database schema for an AI-driven financial tracking tool.
- Led "Sprint 7 & 8" presentations, facilitating retrospectives and aligning technical output with client goals.
- Designed comprehensive architecture diagrams to streamline the development lifecycle.

### LabSync-AI | Node.js, MongoDB, Telegram API

- Developed a backend environment utilizing **Telegram Webhooks** for real-time user notifications.
- Optimized MongoDB connection pooling to ensure 99% service uptime and low-latency data retrieval.

### Healthcare Management System | React, Node.js, Express

- Built a secure patient management platform featuring appointment scheduling and medical record storage.
- Implemented RESTful API endpoints with modular architecture to support future scalability.

### Custom Database Engine | C++, Systems Programming

- Programmed a low-level database engine from scratch to handle custom data storage.
- Implemented B-tree indexing and file management logic without reliance on external libraries.