Muhammad Khan

EDUCATION

Bachelor of Science in Software Engineering (3.6 GPA)

Virtual University of Pakistan

EXPERIENCE

Engineering Lead

TechHive (PVT.) Limited, Lahore, PK

May 2025 - Present

- Led full-stack development across multiple major projects including EdTech, HealthTech, and ERP systems.
- Worked with major clients including MHPSS, WHO, NextBridge, HSI and Yuksel Seeds

Senior Full Stack Developer (Team Lead: Floor Insights)

WiMetrix Lahore, PK

Jul 2024 - May 2025

- Led a cross-functional team to develop web and Android applications, enhancing system scalability and efficiency.
- Managed migration to Expo SDK 52 and React Native New Architecture.
- Designed architecture using NATS to handle real-time IoT data from distributed devices.
- Integrated RFID (UHF) scanning and NFC read/write functionality in React Native.
- Built admin tools with Keycloak for user management.
- Created a RAG-based chatbot to enable data analysis and visualizations via natural language.

Senior Software Engineer

TechHive (PVT.) Limited, Lahore, PK

Aug 2023 - May 2025

- Led development of TutorBees.net, enhancing session scheduling, tutor onboarding, and student experience.
- Managed deployments using AWS, Docker, and CI/CD pipelines, ensuring scalability and reliability.

Software Engineer

TechHive (PVT.) Limited, Lahore, PK

Feb 2021 - Aug 2023

- Delivered the MHPSS digital platform for national mental health case management (web, mobile apps, LMS).
- OpenEdx & Moodle customizations

Contact

me@muhammadkhan.dev
+923365859518
muhammadkhan.dev
muhammadk1607
muhammadk1607

Programming Languages

- JavaScript/TypeScript
- CSS
- HTML
- Python
- Ruby
- SQL
- Kotlin
- C/C++
- Java
- PHP
- Bash

Frameworks/Libraries

- Node.js
- Express.js
- Fastify
- React
- React Native
- Expo
- Ruby on Rails
- Laravel
- Django
- Flask
- NextJs
- Astro
- FastAPI
- Kivy
- Numpy
- LLamaIndex
- Langchain
- Cypress
- Jest/Vitest

PROJECTS

SRB Tracking App

A real-time mobile app for sharing and tracking user locations, modeled after "Find My Friends."

Developed for a client at Techhive

TutorBees.net — Online Tutoring Portal

TutorBees.net provides online tutors in Pakistan & abroad. It is built on Ruby on Rails 7 MVC architecture.

Developed at Techhive

Muhasib — Muslim Prayer Accounting App

Muhasib is a cross-platform application for Muslim prayer accounting, API built with Node.js and app with Expo + React Native.

Developed as the final year project for BSSE

CERTIFICATIONS/COURSES

Multi AI Agent Systems with crewAI | DeepLearning.AI

Feb, 2025

Advanced TypeScript Patterns | Total TypeScript

Jul, 2024

TypeScript Generics | Total TypeScript

Apr, 2024

Missing Semester of Your CS Education | MIT

Jan 13, 2022

Full Stack Ruby on Rails | The Odin Project

July 11, 2021

Back End Development and APIs | FreeCodeCamp

October 17, 2021

Front End Development Libraries | FreeCodeCamp

July 19, 2021

JavaScript Algorithms and Data Structures | FreeCodeCamp

March 5, 2020

Responsive Web Design | FreeCodeCamp

Feb 19, 2020

CS50: Introduction to Computer Science | Harvard

Apr 22, 2019

COMPETITIONS/AWARDS

2024 DareFightingICE Competition (Sound Design Track)

Submitted “Retro Rumble”, 2nd Place

2023 DareFightingICE Competition (AI Track)

Submitted “BAISIK”, 3rd Place

VOLUNTEERING WORK

Spreading Smilex x Tinkers Collective

Worked as volunteer on welfare drives

Friends Club Pakistan Welfare Foundation

Development of organization website

Database

- MySQL
- SQLite
- MSSQL/SQL Server
- PostgreSQL
- MongoDB
- Redis

Technologies

- Solr
- Elasticsearch
- NATS
- Kafka
- AWS
- Digital Ocean
- Docker
- Kubernetes
- Jenkins
- KeyCloak
- APISix
- ArgoCD

Tools/Platforms

- Moodle
- BigBlueButton
- Open edX
- Redmine
- Odoo
- Mahara