

# Kashan Saeed

[kashanmiankhel922@gmail.com](mailto:kashanmiankhel922@gmail.com) | [linkedin.com/in/kashan-saeed-942548375](https://linkedin.com/in/kashan-saeed-942548375) | [github.com/kashan-miankhel14](https://github.com/kashan-miankhel14)

## EDUCATION

### FAST National University of Computer and Emerging Sciences (NUCES)

Bachelor of Science in Software Engineering

Peshawar, Pakistan

Aug. 2022 – Expected May 2026

## EXPERIENCE

### Private Tutor (C++ and Python)

2023 – Present

Remote

- Taught 15+ students from beginner to intermediate level, focusing on OOP concepts, logic building, and debugging techniques
- Designed structured weekly lesson plans with hands-on exercises and performance tracking

### Software Documentation Specialist (Academic Project)

2024

Peshawar Tourism Department

Peshawar, Pakistan

- Authored comprehensive Software Requirements Specification (SRS) document
- Developed detailed use cases, UML diagrams, and stakeholder analysis

## PROJECTS

### Bookstore Microservices Platform | Express.js, Next.js, TypeScript, MongoDB, Docker, Kubernetes, Prometheus

2025

- Designed and deployed a scalable 9-microservice architecture (User, Catalog, Orders, Payment, Reviews, Cart, Recommendations, Notifications, API Gateway)
- Implemented containerization with Docker and orchestrated using Kubernetes (Deployments, StatefulSets, Ingress, PVCs)
- Integrated Prometheus with custom metrics (HTTP histograms, Node.js process stats, event loop lag) for real-time monitoring
- Built modern Next.js 14 frontend with TypeScript, Tailwind CSS, JWT authentication, and responsive design

### Insurance AI Hub | React, TypeScript, Supabase, PostgreSQL, OpenAI, Groq, LangChain, RAG

2025

- Developed full-stack AI-powered insurance platform with multi-role system (Users, Companies, Admins) and real-time features
- Implemented RAG pipeline using LangChain for context-aware recommendations with anti-hallucination safeguards
- Integrated dual AI providers (GPT-4o-mini + Groq Llama 3.1 failover) via Supabase Edge Functions
- Designed complex PostgreSQL schema (13 tables) with RLS policies, triggers, and advanced relationships

### HRM System for Software House | BootStrap, JavaScript, SQLite

2024

- Built role-based HR management system with secure authentication, employee profiles, attendance tracking, and leave management
- Implemented real-time updates and dashboard analytics using Supabase features
- Developed responsive UI with modern component architecture and form validation

## ACHIEVEMENTS

Secured 4th position in a Capture The Flag (CTF) cybersecurity challenge, demonstrating strong problem-solving and security skills

Maintained an active GitHub portfolio with multiple production-ready full-stack and DevOps projects

Consistently delivered high-quality academic projects with detailed documentation and presentations

## TECHNICAL SKILLS

**Languages:** JavaScript, TypeScript, Python, HTML/CSS, SQL

**Frameworks/Libraries:** React, Next.js, Node.js, Express.js, Tailwind CSS, LangChain, shadcn/ui

**DevOps & Tools:** Docker, Kubernetes, Prometheus, Git, VS Code, IntelliJ, PyCharm

**Databases:** PostgreSQL, MongoDB, Supabase, MySQL, SQLite

**Concepts:** Microservices, RAG, OOP, SDLC, Data Structures, Agile, Cybersecurity (CTF)