

Kashan Saeed

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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, shaden/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)