

# Ahmed Tahir Shekhani

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## EDUCATION

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**Frankfurt University of Applied Sciences (Frankfurt-UAS)** Apr 2025 – Current  
*MSc. High Integrity Systems - Semester - First*

**Lahore University of Management Sciences (LUMS)** Sep 2019 – Jun 2023  
*BS Computer Science - CGPA - 3.77/4.0*

**Courses:** Software Engineering, Algorithms, Data Structures and Science, Distributed Systems, Network Security, Computer Vision, Deep & Machine Learning, Blockchain, Business Communication, Financial Accounting, Economics, Marketing

## WORK EXPERIENCE

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**Careem (Uber Inc.) - Technologies** May 2023 – Mar 2025  
*Software Engineer (AI/ML)*

- Designed, developed, and deployed a Python-based microservice with integrations of **OpenAI**, **LangChain**, and **Langfuse**; released scalable REST APIs with **82% test coverage** and integrated CI/CD pipelines.
- Developed and implemented a **bug triage system** using **GPT-4 embeddings**, **ChatGPT**, **Vision APIs**, and **VectorDB (Faiss)**; built a 3-model LLM classifier achieving **80% accuracy** on test datasets.
- Built and evaluated **churn prediction models** for Food & Grocery verticals using tree-based algorithms; achieved **AUC of 0.85** and **precision of 80%**, delivering actionable insights for retention strategies.
- Conducted **pre- and post-A/B experiment analysis** to assess **retention uplift**, **Average Order Value (AOV)** differences between treatment and control groups, and the impact of promotions and nudges.
- Developed a **pseudonymization framework** to enable secure internal data sharing; delivered the solution within **7 days** using **clean code principles** and **agile methodology**.
- Productionized a hybrid **demand forecasting model** (Neural Network + Tree-based) with **hourly granularity**, enabling **24-hour predictions** to optimize resource allocation and **supply chain planning**.
- Collaborated on internal AI/ML enablement projects focused on **dynamic pricing**, **supply/demand prediction**, and **model benchmarking**; ensured rapid iteration and comprehensive documentation.
- Explored **frontend integration of ML outputs** into real-time dashboards; contributed to delivering actionable insights via real-time APIs and high-impact visual analytics interfaces.
- Proficient in **Python (NumPy, pandas, SciPy)**, **SQL**, RESTful APIs, **Unix/Linux systems**, and familiar with **C++**, **LangChain**, **Faiss**, and LLM tooling (ChatGPT, Perplexity).

**Al-Nafi – E-Learning Platform** Sept 2022 – Apr 2023  
*Software Engineer*

- Rapidly prototyped end-to-end applications using **AWS services** (Transcribe, Polly, CodePipeline, Fraud Detector, Face Detection); delivered feature-complete projects in under **48 hours**, demonstrating quick adaptation and deployment.
- Engineered **Decentralized Applications (DApps)** with **Ganache** and **Truffle**, exploring decentralized learning use-cases and integrating **REST APIs** to enhance testing workflows in a Linux-based environment.
- Enhanced a **React + Django-based CRM platform**, improving UI responsiveness and component reusability, resulting in an **80% boost in sales team efficiency** through optimized user flows.
- Led a **7-member cross-functional team** to deploy a scalable **Learning Management System (LMS)** and CMS via **OpenEdX**, ensuring **API scalability**, **UI responsiveness**, and smooth content delivery.
- Optimized **testing workflows** and improved **deployment pipelines** using AWS services to ensure rapid iteration and efficient deployment of new features.

**10Pearls – Software Company** Jun 2022 – Aug 2022  
*Internship – Software Engineer*

- Built a responsive travel itinerary web app using **Angular 13**, **Express.js**, and **MongoDB**, implementing **MVC architecture** and leveraging **Agile workflows** for iterative delivery.
- Adopted **Domain-Driven Design (DDD)** and **Test-Driven Development (TDD)** with **90% unit test coverage** via **Jest**, ensuring high frontend stability and performance in production.
- Developed a fully functional, **i18n-enabled UI component** for a US-based security platform in under **2 days**, demonstrating rapid prototyping skills and delivering quality frontend solutions under tight deadlines.

- Collaborated with cross-functional teams, contributing to **code reviews** and **onboarding sessions**, improving the team's understanding of component logic and ensuring better collaboration on the codebase.
- Streamlined the development process by enhancing **version control practices** and optimizing **CI/CD pipelines**, improving delivery speed and reducing production issues.

## Enzyme Digital – Marketing Agency

Jun 2021 – Aug 2021

### Internship – Website Developer

- Built and deployed high-performance, **SEO-optimized web apps** (E-commerce & corporate), achieving **90%+ Lighthouse scores** within 12 weeks.
- Integrated **Facebook Pixel** and **Google Tag Manager** to improve **conversion tracking** and **ROAS measurement** with custom JavaScript.
- Developed a custom **React-based internal tool**, reducing repetitive tasks by **50%** and improving workflow efficiency.

## PROJECTS

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### AKCRU – Multifarious Streaming Platform

Jan 2024 – Jan 2025

- Led a **6-member development team** to build and scale a real-time **video streaming and networking platform**, integrating **meeting**, messaging, and community features for enhanced user interaction.
- Designed and implemented full-stack features using **Next.js**, **React.js**, **Node.js**, and **Express.js**, leveraging **Supabase** and **Firebase** for a scalable backend and secure authentication.
- Integrated and optimized **100ms video APIs** to enable real-time streaming, ensuring dynamic session management, user roles, and low-latency performance with customizable configurations.
- Enhanced system-level security by integrating **Castle.io** and implementing **2FA/OTP authentication**, ensuring secure and reliable user interactions across distributed components.

### Autonomous Trading Bot - FYP | Flask Python, Next JS, ML Modules Aug 2022 - May 2023

- The bot is designed to trade stocks using technical analysis and machine learning algorithms. The back-end follows domain driven design and frontend follows MVC architecture.

### Shopify - OneTag: AI-Powered Sales | AI, LLMs

Jun 2023 - Feb 2024

- Built and launched **OneTag**, an AI plugin in partnership with **Shopify**, automating product description generation using **LLMs**.
- Applied NLG techniques to generate SEO-optimized content, improving conversion rates and store engagement.
- Ensured seamless Shopify integration with focus on performance, UX, and easy deployment.

## PROFESSIONAL DEVELOPMENT

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Nvidia Deep Learning Workshop and Astera Data Bootcamp (2022)

## PUBLICATIONS

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### Unravelling the Implications of Effort Allocation in Gig Economy: A Study of Driver Relocation in Food Delivery

**Authors:** Srishti Arora, Vivek Choudhary, Sameer Hasija, Ivan Gorban, Selim Turki, Ahmed Shekhani

**Affiliations:** INSEAD, Nanyang Business School, Careem

**Date Written:** December 4, 2023

**Abstract:** The gig economy has increasingly become a pivotal part of the global workforce, driven largely by the labor flexibility it affords companies and the self-scheduling options available to workers.

**Available at SSRN:** [https://papers.ssrn.com/sol3/papers.cfm?abstract\\_id=4679321](https://papers.ssrn.com/sol3/papers.cfm?abstract_id=4679321)

## SKILLS

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**Languages:** German (A2), English, Urdu

**Programming:** Python, C++, JavaScript, TypeScript, SQL

**AI/ML Data:** LLMs, NLP, Prompt Engineering, LangChain, PyTorch, TensorFlow, Scikit-learn, pandas, NumPy, Faiss, SQL Analytics

**Backend DevOps:** Node.js, Express.js, FastAPI, REST APIs, Firebase, Supabase, MongoDB, Azure, Docker, Kubernetes, GitHub Actions, Linux

**Frontend UX:** Next.js, React, TailwindCSS, Figma, HTML5, CSS3, Responsive Design

**Testing Performance:** Pytest, Jest, Lighthouse, QA Automation, Performance Tuning, SEO

**Cloud Infrastructure:** AWS, Azure, Kubernetes, Docker

**Soft Skills:** Communication, Problem Solving, Creativity, Teamwork, Agile