

Abdul Muizz Khan

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Education

LUMS, School of Science & Engineering | B.S. Computer Science

Sep 2019 – May 2023

- **CGPA:** 3.81/4.0 (Top 8%), **Awards:** High Distinction Award, Dean's Honor List (2019 - 2023)
- **Coursework:** Machine Learning, Artificial Intelligence, Data Mining, Blockchain, Network-Centric Computing, Algorithms, Data Structures, Advanced Programming, Operating Systems

Skills & Certifications

- **Languages:** Python, Java, TypeScript, JavaScript, C/C++, SQL (PostgreSQL), HTML, CSS
- **Frameworks & Libraries:** Node.js, Express.js, NestJS, React.js, React Native, Spring Boot, TypeORM, Hibernate ORM
- **Databases:** PostgreSQL, MongoDB, MySQL
- **Cloud & DevOps:** AWS (ECS, CloudWatch, SQS), Docker, Heroku
- **Testing & Automation:** Selenium, Scrapy
- **Developer Tools:** Git, GitHub, Bitbucket, SourceTree, Jira, Notion, DBeaver, JetBrains IDEs, Visual Studio, Xcode, Android Studio, Figma
- **Certifications:** AWS Certified Cloud Practitioner, Prompt Engineering for Developers

Work Experience

Software Engineer – CarSwitch Arabia

Apr 2025 – Present

A fast-growing automotive platform serving the UAE and KSA, simplifying car buying and selling through tech innovation.

- Rebuilt legacy PHP platform into **Node.js + Next.js + React Native** with a team of 4, completing migration in 6 months to improve scalability and maintainability.
- Improved platform stability by **30%** by shipping features and resolving high-priority bugs as an on-call engineer, reducing resolution time.
- Enhanced **observability and diagnostics** by integrating SDKs (**Meta, Microsoft Clarity, New Relic, Firebase, Crashlytics**) for web and mobile.
- Increased user engagement by 40% by deploying an AI-powered chatbot that delivered car-specific responses via prompt engineering in the app.

Software Engineer – Conrad Labs

Mar 2024 – Apr 2025

A leading technology company offers startups highly scalable, innovative solutions through top-tier engineering expertise, delivering impactful results worldwide.

- Built backend services in **Java (Spring Boot, Hibernate)** for a medical platform to automate cost comparisons, reducing client drug expenses.
- Led migration from monolith to **microservices architecture on AWS ECS**, containerizing services with Docker to improve scalability.
- Designed a **specialty drug prioritization module**, reducing costs by up to 20% through targeted switching.
- Implemented bulk data processing pipeline for **50,000+ records** using **AWS SQS**, enabling parallelism and fault tolerance.

Founding Software Engineer – Alif Care

Jun 2023 – Mar 2024

A health-focused startup offering a managed chronic care platform, leveraging evidence-based science to deliver fully personalized programs tailored to each individual's unique needs.

- Centralized error monitoring by integrating **AWS Elastic Beanstalk logs with CloudWatch**, enabling real-time alerts and dashboards to reduce detection and resolution time.
- Accelerated patient onboarding from **7 days to 5 minutes** by building an **admin portal that automated workflows** and streamlined internal operations.
- Improved payment experience by **integrating XPay APIs**, overcoming third-party integration challenges to deliver secure, seamless transactions.

Personal Projects

ParaAI – Platform For Humanizing AI Text



A cutting-edge text refinement platform that leverages advanced algorithms to elevate the quality of AI-generated and human-written content, ensuring it meets the highest standards of written communication.

- Built a responsive web app integrating **GPT-4 and fine-tuned LLMs** to deliver personalized grammar, style, and tone feedback, boosting user engagement.
- Refactored legacy code into **reusable, optimized components**, reducing development time by **30%** and improving maintainability across pages.

Pinterest Scraping Bot – Scraping Tool For Data Extraction



A scraping bot to extract data from Pinterest according to the user-specified prompt and page limit.

- Built a **Selenium-based web** scraping bot to automatically collect images, titles, and descriptions from Pinterest for **trend analysis and market research**.
- Implemented **customizable extraction logic** (scroll depth, user-defined filters) to improve efficiency and enable precise niche data collection.