## **Muhammad Affan Khalid**

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Passionate and skilled Software Developer with expertise in full-stack development, specialising in creating innovative digital solutions. Committed to delivering high-quality software that supports digital transformation and improves user experiences.

## **Skills**

- Programming Languages: React, Next.js, TypeScript, JavaScript, Node.js, C++, Python, HTML, CSS
- Technologies: MySQL, NoSQL, RDBMS, Git, MS Azure, Restful APIs, Agile, GitHub
- · Soft Skills: Time management, communication, teamwork, problem-solving, critical thinking, and adaptability.

## **Education**

MS Computer Science.

January 2023 -- May 2024

University of East London

Master's Thesis: Credit Risk Assessment using Machine Learning

**BS** Computer Science

August 2018 -- May 2022

National University of Computer and Emerging Sciences

#### Certifications

Microsoft Azure Fundamentals, AWS Cloud Foundation, CompTIA Security+

#### RESEARCH EXPERIENCE

**Dissertation Research** 

January 2024 - May 2024

UEL/Engineering, London

- Developed a comprehensive credit risk assessment model using advanced machine learning techniques, Random Forest, XGBoost, Decision tree, and Logistic Regression to improve prediction accuracy.
- Implemented data pre-processing techniques like imputation, normalisation, and feature engineering to enhance model performance.
- Conducted in-depth literature review to identify relevant research gaps and inform research methodology.
- Utilised statistical software to analyse large datasets and generate insightful visualisations.
- Collaborated with academic experts to refine research questions and interpret findings.
- Presented research findings at conferences and workshops, demonstrating strong communication skills.

# PROFESSIONAL EXPERIENCE

## **Full Stack Developer**

August 2022 - January 2023, Devsinc, Lahore, Pakistan

- Developed full-stack web applications using MERN Stack, focusing on creating intuitive and efficient user interfaces.
- Implemented microservice APIs, ensuring robust and scalable software architecture.
- · Conducted comprehensive code reviews to maintain high-quality standards and improve code efficiency.
- Collaborated with cross-functional teams to translate user requirements into technical specifications.
- · Successfully contributed to both the web application and admin panel by utilising React, including implementing new features
- that enhanced the functionality of both platforms.
- Consistently delivered optimised, organised, and well-documented code following the DRY principle, reducing redundancy, and increasing maintainability and scalability of the application.

## TEACHING & MENTORING EXPERIENCE

## **Teaching Assistant**

Data Structures and Algorithms

- Assisted in conducting weekly laboratory sessions, and guiding students through practical assignments. September 2019 -- January 2020
- **Developed** and delivered engaging tutorial sessions to clarify complex concepts and problem-solving techniques.
- Graded student assignments and provided constructive feedback to improve their understanding.
- Collaborated with faculty to design and implement effective teaching strategies.
- Mentored students on academic and professional development, fostering a supportive learning environment.

# **Professional Development**

- Continuous learner of emerging technologies and software development frameworks
- Passionate about exploring innovative approaches to solving complex technical challenges.