

M. RAYYAN KHAN

Software Engineer | Cloud Enthusiast
📞 +92 335 3948811 ✉️ khan.rayyan3622@gmail.com 📍 Karachi, Pakistan

SUMMARY

A Software Developer with a robust foundation in AI-driven applications and cloud computing. Proficient in Python, JavaScript, and agile methodologies. Ability to translate business requirements into technical solutions.

WORK EXPERIENCE

XPACE Technologies Pvt. Ltd
Software Developer (Artificial Intelligence Intern)

May 2024 - July 2024

- Built a fraud-detection ML pipeline using Python and scikit-learn, improving detection accuracy by 12%.
- Developed an image-classification module for self-driving car simulation using TensorFlow.
- Developed a data-driven agriculture solution, considering soil minerals, humidity, temperature, and rainfall parameters.
- Contributed to the design and implementation of a chatbot system with rule-based responses, enhancing user engagement and interaction.
- Created an AI application capable of detecting and recognizing faces in images or videos, contributing to the advancement of facial recognition technology.

Micro Electronics Research Laboratory
Trainer Internee (Summer Internship)

Sept 2022 - Dec 2022

- a Trainer Internee during my summer internship in MERL which is Pakistan's first research laboratory on microelectronics.
- Worked on combination of technologies like Scala, Chisel, Verilog.
- Projects: 5 Stage Pipelining, Single Cycle Implementation, Functional Programming.

EDUCATION

BS in Software Engineering

NED University of Science and Technology (UIT)
2021 - 2025

Object Oriented Programming, Cloud Computing, Data Structures and Algorithms, Probability and Statistics, Software Design and Architecture, Software Quality Engineering

VOLUNTEERING

IEEE Student Branch - UITU Chapter Member

I actively contributed to the IEEE awareness session hosted by IEEE Women in Engineering, Karachi Section, helping to promote IEEE's mission and values. Additionally, I collaborated with the IEEE UITU Chapter on various events and activities.

Google Developer Students Club - Data Science Lead

As the Data Science Lead at Google Developer Students Club, I lead data-driven initiatives and foster learning in the field of data science. I am responsible for organizing workshops, promoting collaborative projects, and mentoring fellow students in data science topics.

CERTIFICATIONS

Software Engineering - Specialization

Hong Kong University of Science and Technology

Amazon Junior Software Developer

Coursera - Professional Certificate

Web Developer Bootcamp 2024

Udemy (Instructed by Sir Colt Steele)

TECHNICAL SKILLS

Java, Python, JavaScript, React, Vue, Angular, Node.js, AWS, Azure, SQL, TypeScript, AWS, Azure, HTML, CSS, RESTful APIs, Git, Figma, Docker, Kubernetes & Postgres

PROFESSIONAL SKILLS

Excellent Written and Verbal Communication
Technical Documentation
Teamwork & Project Management
Critical Thinking
Duolingo English Test (DET Score: 125)
Problem analysis and problem-solving

PROJECTS

(VIRTUAL EXPERIENCE)

Walmart Global Tech - Advanced Software Engineering

- Implemented a power-of-two max-heap in Java and benchmarked its performance for efficient data handling.
- Modeled and normalized a relational database schema using SQL to support scalable data storage and integrity.
- Developed Python scripts for data munging, handling raw datasets by cleaning, transforming, and validating data.

Hewlett Packard Enterprise

- Wrote a proposal for a RESTful web service to manage a list of employees.
- Built a basic RESTful web service using Java Spring Boot and HPE GreenLake.
- Implemented support for uploading JSON data to the application.
- Developed and ran unit tests using Mockito and JUnit to assess application performance.

JP Morgan Chase & Co.

- Configured a Java/Spring Boot project with Maven and Git.
- Integrated Apache Kafka for event-driven microservices.
- Set up an H2 in-memory database for rapid development and testing.
- Developed RESTful endpoints and integrated a third-party API.