



Walid Shafraz

DOB: 17 November 2003

Nationality: Sri Lankan



[linkedin.com/in/walid-shafraz](https://www.linkedin.com/in/walid-shafraz)



+971 50 5017119



wshafraz@gmail.com



Dubai, UAE

Education

University of Wollongong in Dubai

Bachelor of Computer Science

GPA: 3.54/4.00

Sep 2022 - Dec 2025 | UAE

Projects

Intellectus

UOWD

Adaptive Learning Platform for Schools

Next.js, Node.js, PostgreSQL, Python, LangChain, OpenAI APIs, Clerk Auth

Developing a full-stack education platform that personalizes teaching materials based on students' VARK learning styles. Working on system architecture, API design, and learning flow diagrams to support automated, content transformation, assessments, and analytics dashboards.

Blockchain Identity Management System (BIMS)

UOWD

Decentralized Access Control with Smart Contracts

Solidity, Node.js, Express.js, Hardhat, JWT, Ethers.js

Designed and implemented a blockchain-based system to manage employee identities and permissions using Ethereum smart contracts. Replaced traditional login methods with cryptographic wallet signatures, enforced role-based access control on-chain, and built a secure Node.js API layer to handle authentication and authorization workflows.

DoxAssist

AILAR (UK)

AI-Powered Job and Company Scraper

Python, React, Tailwind CSS, LangChain, T5, RAG search, Selenium

Developed a lead qualification for DOXRA (by AILAR) that scrapes job listings and LinkedIn data to identify companies with large codebases. Processed job descriptions using NLP and vector search to detect tech stacks, and integrated the results into a chatbot interface.

Data Lake

Lankapack

Google Cloud-based Platform

Python, Google Cloud Functions, BigQuery, Looker Studio, SQL

Built a cloud-native data lake solution for a Sri Lankan packaging company using GCP services. Designed an automated ETL pipeline with Cloud Functions, structured the data warehouse in a star schema on BigQuery, and created real-time dashboards in Looker Studio to improve inventory tracking and business reporting.

AI x PacMan

UOWD

Q-Learning Agent for a Stochastic Game Environment

Python, Q-Learning, NumPy

Built a reinforcement learning agent for the classic PacMan game using Q-learning. Designed a custom state space, implemented reward shaping, and optimized action selection with an ϵ -greedy strategy. Tuned hyperparameters and memory buffers to handle stochastic ghost behaviour and real-time updates across 3M+ Q-table entries.

CryptoGuard

UOWD

Password Similarity Detection Tool

Python, Bloom Filters, Jaccard Similarity, N-gram analysis

Developed a password analysis tool leveraging n-gram text analysis and Bloom Filters to detect subtle variations in weak passwords. Used Kali Linux's rockyou.txt dataset and applied Jaccard similarity to identify commonly reused patterns, improving authentication security through probabilistic data techniques.

Experience

UOWD Humanitarian Society

President

Dubai, UAE | Part-time | July 2025 – Present

- Lead strategic planning for community events and partnerships with NGOs.
- Coordinated cross-functional teams to deliver high impact initiatives benefiting local communities.
- Spearheaded proposal writing and stakeholder engagement to secure support for ongoing programs.

Secretary

Sep 2024 – July 2025

- Managed internal communications and social media platforms for society-wide updates.
- Led logistics for key events while streamlining workflows through improved collaboration tools.
- Created content for campaigns and coordinated outreach initiatives with external partners.

Preply

Mathematics Tutor

Remote | Part-time | Nov 2024 - Present

Teaching IGCSE Mathematics to international students, focusing on improving understanding and building confidence.

Skills

Coding Languages

Python • C++ • HTML/CSS
SQL • PostgreSQL

Software

Microsoft Office Suite •
RStudio • Unity • Figma

Additional Skills

Project Management •
Documentation •
Technical Writing • Public
Speaking • Leadership &
Team Coordination