

Hamza Younes

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SUMMARY

Business-focused AI & Full-Stack Engineer with experience building data-driven products across FinTech and EdTech and conducting applied AI/ML and computer vision R&D across BioTech, EnviroTech, and MedTech. Combines technical execution, research, and product thinking to deliver measurable real-world impact.

EDUCATION

An-Najah National University

2026

Bachelor, Computer Engineering

Nablus, Palestine

- This program is accredited by the Engineering Accreditation Commission of ABET
- Societies: IEEE Computer Society, IEEE Aerospace & Electronics Systems Society.
- Electives Included: Special topics in Wireless Networks, Digital Forensics & Cybersecurity, Distributed Operating Systems, Advanced Software Engineering, VLSI Design Verification, Democracy Human Rights & Intl Law

Islamic Secondary Boys School

2021

Tanjibi (Scientific Stream), Grade: %94.3 (A)

Nablus, Palestine

WORK EXPERIENCE

Friedrich Schiller University

Aug. 2026 - Present

Researcher

Jena, Germany

- Developed an AI/ML computer vision pipeline for moth species classification using EFDs, ResNet-50 embeddings, and FAISS.
- Improved cross-domain classification accuracy from 25.8% to 93.5%

Wasef Haj Ahmad Amer Co

Jan. 2026 – Present

Software Engineer & Digital Operations

Nablus, Palestine

- Maintained B2B mobile ecommerce platform in Swift & Kotlin and migrated it to Flutter.
- Managed lead lifecycle and CRM operations using HubSpot across digital channels
- Designed & planned Marketing material & campaigns (LinkedIn, Facebook, Instagram)
- Established digital presence through website development and design in Next.js.
- Managed & administered procurement & sales operations through SAP Business One & Microsoft SQL Server
- Developed RAG based chatbot in Python (TF, Gemini & SQL lite) that deals with 1Mill+ DB entries (products and car models combinations assisting users in choosing the right products.

Quantopian

Sep. 2025 – Dec 2025

Teaching Assistant to Dr. Arman Khaledian Applications of LLMs & AI in Quantitative Finance.

Boston, United States

- Researched & developed course curriculum, Python projects, & lecture slides.
- Designed marketing & promotional material for Course Outreach.
- Clarified concepts for students and guiding implementation of AI/ML techniques
- Built python modules for LLM embeddings, clustering, AI equity classification, & portfolio analytics.

Zanista AI

Jul. 2025 – Dec 2025

Full Stack AI Engineer & Business Growth Partner

London, United Kingdom

- Built & Maintained AI/ML & automation pipelines in Python
- Increased accuracy of handwritten answer detection in EdTech Solution by 60% utilizing OCR and Azure AI Foundry
- Researched & implemented efficient solution for news gathering & analysis for stock sentiment prediction resulting in 50% cost reduction & 80% output quality improvement.
- Designed Zanista's new brand identity (Logo, Website & Social-Media Material) By implementing modern UI/UX practices using Canva and responsive mobile friendly React Pages.
- Managed Azure/GCP cloud infrastructure & deployed services with Docker & Kubernetes.
- Conducted Market Research, Successful Pilots with Intl Customers & Increased Retention by 40%

Wasef Haj Ahmad Amer Co <i>IT Department Technician (Part-Time)</i>		Sep. 2021 – Dec 2025 <i>Nablus, Palestine</i>
Deployed & maintained IT systems & network infrastructure.		Performed data analysis & forecasting using Excel & Python to support procurement & sales decision-making
Update Technology <i>Customer Service (Part-Time)</i>		May. 2019 – Aug. 2020 <i>Nablus, Palestine</i>
Provided customer support for consumer technology assisting with troubleshooting hardware & software issues.		
PROJECTS		
<u>AI Powered E-Learning platform “Neureom”</u>		Aug. 2025 – Dec. 2025
Cross-Platform AI-powered solution built using Next.js, Node.js/Express, MySQL, Flutter, Firebase, Google Cloud, OpenAI, and Gemini, delivering interactive video courses, automated quizzes and summaries, adaptive learning paths, instructor analytics, real-time updates, secure Calling/messaging system, Context Aware AI Assistant with Asynchronous TTS audio streaming, Learning Community, push notifications, unified codebase.		
Distributed Online Bookstore “Books Bazar”		Nov. 2025 – Dec 2025
Built using Python, Flask, Docker, REST APIs, and Docker Compose, implementing microservices, primary-backup replication, load balancing, and LRU caching with cache invalidation, achieving 96% cache hit rate and strong consistency.		
Chatting Application “ClientChat”		Sep. 2024 – Nov. 2024
GUI-based UDP chat application using Java (Swing) for real-time messaging.		
Hotel Management System “Hilton Hotel”		Jan. 2024 – May 2024
Developed a hotel management system using Java (AWT & Swing), PostgreSQL & JasperReports.		
Image Processing Project “Pixalyze”		Sep. 2023 – Jan. 2024
Python GUI app that loads grayscale images, applies filters (like Sobel, Prewitt, Laplacian, etc.), defines custom filters, and save processed images. Built with Tkinter and OpenCV.		
COURSE EXPERIENCE		
Udacity Nanodegree: Data Analyst (https://www.udacity.com/certificate/e/621c9636-70a2-11f0-bdad-7701ea5dd04b)		Dec. 2025
Google Foundations of Cybersecurity (https://coursera.org/share/5fd0c40d4418980b59f80f7e3ac46a0)		Apr. 2025
Meta Introduction to Frontend Development (https://coursera.org/share/bf5458fa44ee906e55ad00a6646ed308)		Apr. 2025
Stanford & DeepLearning.AI Machine Learning (https://coursera.org/verify/specialization/3l7324TCM41R)		Feb. 2025
IBM Python for Data Science, AI (https://www.coursera.org/account/accomplishments/records/7RSYV5ECZAZ9)		Jan. 2025
Mastering Data Structures & Algorithms (https://ude.my/UC-ac14b50a-ba8b-4864-b8be-6910ea9df4d4)		Sep. 2023
VOLUNTEERING		
Food Bank Distribution <i>Hittin Club</i>		Jun. 2020 – Aug. 2020 <i>Nablus, Palestine</i>
Assisted in organizing & distributing relief packages to families affected by the COVID-19 pandemic.		
SKILLS & INTERESTS		
Programming: Python, C++, C, Java, JavaScript Web Development: React.js, Next.js, HTML, CSS, Flutter Mobile Development: Flutter, Kotlin, Swift Databases: PostgreSQL, MySQL, MongoDB, Supabase AI & Machine Learning: ML LLMs, TF, Keras, Pandas, NumPy Cloud & DevOps: GitHub, GCP, Azure, Docker, Kubernetes Languages: English (Fluent), Arabic (Fluent), French (Beginner), Russian (Beginner) Interests: Football, Basketball, Piano, History, Geography, Travelling, Table Tennis, Star Wars, Better Call Saul, SW Radio, Photography, Videography, Planes, Trains.		
Product & Strategy: Product Strategy, Growth Strategy, Business Development Research & Insights: Market Research, User Research, Data Storytelling, Data Analysis, Business Analysis Tools: Apollo, RocketReach, HubSpot, Windsurf, Canva, Photoshop, Brevo.		
Work Authorization: Canadian Citizen Youth Mobility work eligibility across 35+ EU/EEA countries.		