Faris Ayman Ragheb Nasser

Computer Engineering

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🔗 Personal Site in LinkedIn 📄 UAE Golden Visa Recipient

RESEARCH PROFILE

I'm a final year Computer Engineering student at the American University of Sharjah interested in machine learning and cybersecurity. My work includes developing real-time voice AI agents, studying the security of IoT systems, and exploring machine learning applications. I'm looking to apply for Ph.D programs in a related field.

EDUCATION

BSc, Computer Engineering, Senior I, *American University of Sharjah* 09/2022 – Present
- CGPA: 3.48/4.00 Sharjah, UAE
- Achieved honorary Dean's & Chancellor's List for academic excellence

High Honors, Cambridge IGCSE & Pearson Edexcel A-Level Programs, 09/2020 – 06/2022
Abu Dhabi International Pvt. School Abu Dhabi, UAE
- **A*A*A*** in A-Level Physics, Pure Mathematics, and Chemistry.
- Certified **High Achiever** by Pearson Edexcel
- Vice President of Student Council Cabinet

PROFESSIONAL EXPERIENCE

EBTIC (Emirates ICT Innovation Center) Khalifa University, *Research Intern* 07/2024 – 08/2024
- Completed an 8-week summer research internship focused on developing non- Abu Dhabi, UAE
invasive fall detection systems using Wi-Fi Channel State Information (CSI), while
engaging with a team of researchers.
- Implemented and compared various machine and deep learning models to accurately
classify human activities against falls, aiming to enhance elderly care by eliminating
the need for wearable sensors.

Speak.ai, *Co-Founder, Product Development* 🔗 02/2025 – Present
- Founded a voice AI startup enabling businesses to automate customer support using Sharjah, UAE
real-time AI voice agents with RAG.
- Winners of **Injaz UAE Product of the Year 2025.**
- Sheraa **Startup Dojo**+ Pitch Competition 2nd Place ~ *10,000 AED*

Indigo IT Consultancy, *Cybersecurity Intern* 07/2025 – 08/2025
- Assisted in security assessments of business IT infrastructures by identifying Abu Dhabi, UAE
vulnerabilities in server configurations for mid- sized clients.
- Supported the development of risk mitigation strategies, including firewall rule
audits and implementation of SIEM alerts for suspicious activity.

Physics Department American University of Sharjah, *Student Research Assistant* 09/2023 – 11/2023
- Assisted a Ph.D. student with research on the stability of perovskite materials for Sharjah, UAE
solar cell applications.
- Conducted experiments, including doping of perovskite materials and performing
SEM to analyze material structures.

Nestlé UAE LLC, *Data Analytics in E-Commerce Intern*   08/2025 – 09/2025
- **Conducted data analysis on e-commerce performance metrics** and platform   Dubai, UAE
  dashboards, identifying trends in consumer behavior, digital shelf presence, and
  campaign outcomes for Nestlé's online products.
- Gained early exposure to **customer data handling and platform optimization**

Student Residential Life Department American University of Sharjah,   08/2024 – Present
Resident Assistant (RA)   Sharjah, UAE
- Served as a RA for 30+ students, fostering community and connecting residents to
  resources for academic and personal success by organizing programs/events.
- Led by example as a role model, providing support, counseling, and guidance to
  promote resident engagement, while collaborating with the RA team and
  participating in ongoing training to enhance leadership skills.

RESEARCH & PUBLICATIONS

Fall Detection Using Wi-Fi Channel State Information, *2024 7th International*   11/2024
Conference on Signal Processing and Information Security (ICSPIS) 🔗
- F. Nasser, A. Suliman, K. Poon, A. Alteneiji, and U. Ahmad, "Fall Detection Using Wi-
  Fi Channel State Information," *2024 7th International Conference on Signal Processing
  and Information Security (ICSPIS)*, pp. 1–5, Nov. 2024. DOI:
  https://doi.org/10.1109/icspis63676.202.10812620

Decentralized Honeypot System Using Blockchain and Learning for IoT   06/2025
Security, *Final year thesis, Manuscript in progress*
- Advised by **Dr. Anastassia Gharib**, this project aims to develop a honeypot system
  using blockchain for data integrity and machine learning for intelligent threat
  detection in IoT environments.

Multiverse Privacy Theory (MPT), *Manuscript in progress*   07/2025
- Collaborating with **Dr. Ece Gumusel** on further validating the Multiverse Privacy
  Theory (MPT) using real-world datasets to explore adaptive privacy-preserving
  mechanisms in AI systems.

Projects

MERN Stack Real Estate Marketplace,   07/2025 – Present
Full-Stack Web App with JWT Auth & Redux Toolkit
- Built a modern real estate web app using the MERN stack (MongoDB, Express.js,
  React, Node.js).
- Implemented secure auth with JWT, Firebase, and Google OAuth.
- Developed real-world CRUD operations for property listings.

Credit Card Approval Prediction, *Machine Learning/Data Analysis*   02/2025 – 05/2025
- Tackled credit card default prediction using imbalanced dataset strategies.
- Combined data balancing, outlier detection, and dynamic feature updates.
- Applied semi-supervised learning with grid search for model selection.

Custom Retrieval-Augmented Generation (RAG) System,   03/2025 – 03/2025
Real-Time Question Answering with GPT
- Built a RAG system to allow question answering from a company website.
- Implemented **web scraping** to extract and preprocess service-related content.
- Used **OpenAI embeddings** (text-embedding-3-small) and **ChromaDB** for vector
  search.

VOLUNTARY EXPERIENCES

Careers Club, *Founding Vice President* 🔗
08/2024 – Present
Sharjah, UAE
- Founded and developed initiatives that foster professional growth, networking, and leadership by organizing workshops.
- Responsible for creating detailed financial plans and managing budgets for club events and activities

Society of Cybersecurity, *Events Officer* 🔗
08/2024 – Present
Sharjah, UAE
- Managed and coordinated cybersecurity related events such as the Game Cracking workshop and Highschool bootcamp.
- Responsible for spreading awareness and bringing a passion for cybersecurity at AUS through interactive workshops.

SKILLS/CERTS

Certifications & Training
- **Practical Ethical Hacking**, *TCM Security*, Expected 11/2025
- **Red Hat System Administration I (RH12)**, *Red Hat,* Issued Jan 2025
- **Entrepreneurial Skills Pass**, *JA Worldwide,* Issued Jun 2025
- **Pre-Security**, *TryHackMe,* Issued Jan 202
- **Introduction to Cyber Security**, *TryHackMe,* Issued Dec 2023
- **HTML & CSS Full Course,** SuperSimple.dev, Issued Dec 2023

Skills Acquired
- Cybersecurity & Networking: Penetration Testing, Network Enumeration, Privilege Escalation, Linux.
- Systems & Tools: Kali Linux, Burp Suite, Nmap, Metasploit, Git, Postman, n8n, Red Hat Linux, HTML, CSS, Node.js, React
- Programming & Web Development: Python, JavaScript, C++
- Databases: PostgreSQL, MongoDB, MySQL
- Entrepreneurship & Leadership: Business Development, Team Management, Project Pitching, Product Design, Innovation

Awards

2nd Place ~ 10,000 AED, *Sheraa Startup Competition*	24/09/2025
Product of the Year, *Injaz UAE National Competition*	29/05/2025
Seal the Deal, *Sharjah Investment Forum*	23/10/2025
Best Business Idea Award, *Zurich Foundation*	30/10/2025
Deans List x3, *American University of Sharjah*	08/11/2024
Chancellors List, *American University of Sharjah*	08/11/2024

References

Dr. Hassan Mir, *Professor,* American University of Sharjah
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Dr. Anastassia Gharib, *Assistant Professor,* American University of Sharjah
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Dr. Kin Poon, *Cheif Researcher,* EBTIC
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Mr. Amar Granulo, *Mens Residential Hall Coordinator,* American University of Sharjah
agranulo@aus.edu