Faris Ayman Ragheb Nasser

Computer Engineering

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⬡ farisnasser   🔗 Faris Nasser   in Faris Nasser   📄 UAE Golden Visa Recipient

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RESEARCH PROFILE

I'm a Computer Engineering student at the American University of Sharjah interested in machine learning and the security and privacy of AI technologies. My work includes developing real-time voice AI agents, studying the security of IoT systems, and exploring how trust and security can be built into intelligent systems from first principles. I'm motivated by a physics-based approach to reasoning, aiming to design AI systems that are both technically sound and aligned with human values.

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, COO* 🔗   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 an adaptive
  honeypot framework 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
- Founded and developed initiatives that foster professional growth, networking, and   Sharjah, UAE
  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
- Managed and coordinated cybersecurity related events such as the Game Cracking   Sharjah, UAE
  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
  09/2025
- Red Hat System Administration I (RH12), Red Hat
  Issued Jan 2025
- Entrepreneurial Skills Pass, JA Worldwide Issued Jun
  2025
- Product of the Year - INJAZ UAE National
  Competition, INJAZ UAE Issued May 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