

Amir Beshir

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PROFESSIONAL SUMMARY

Motivated 4th year Computer Science student at the American University of Ras Al Khaimah (ABET accredited). Skilled in Python, Java, SQL, algorithms, data structures, and software design. Experienced in AI search, parallel processing, GUI development, and database systems. Strong problem-solving and teamwork abilities, with a focus on delivering clean, documented solutions. Seeking an entry-level role in software engineering or data science.

EDUCATION

Bachelor's Degree in Computer Science

American University of Ras Al Khaimah

CGPA: 3.77

Relevant Courses: Software Engineering, Artificial Intelligence, Parallel Programming, Operating Systems, Computer Architecture

08/2023 - Present

Ras Al Khaimah, UAE

EXPERIENCE

Computer Science Intern

Alpha Data

05/2025–07/2025

Abu Dhabi, UAE

- Gained hands-on experience in both Network Operations Center (NOC) and Security Operations Center (SOC) environments.
- Worked with real-world tools including OpManager, Log360, Microsoft Defender, and LogRhythm SIEM to monitor network performance and detect security incidents.
- Participated in configuring identity and access management protocols, incident response planning, and endpoint protection strategies.
- Delivered a formal presentation to university and industry supervisors highlighting internship progress, tools used, and cybersecurity applications.

SKILLS

Programming Languages: Python, Java, C++, SQL, JavaScript, HTML/CSS, LaTeX

Databases: MySQL, PostgreSQL (basic)

Web & Frameworks: React (basic), Node.js (basic)

Cloud & DevOps: AWS (basic), Git, Docker, Linux/Unix Command Line

Tools & Technologies: Microsoft Office (Word, Excel, PowerPoint), Cybersecurity, Network Safety, Digital Logic, JUnit

Soft Skills: Leadership, Communication, Problem Solving, Critical Thinking, Creativity, Project Management, Presentation Skills

PROJECTS

Parallel Processing & OS Simulation

03/2026 - 05/2026

Implemented serial, thread-based (with/without locks), and process-based transaction systems. Achieved speedup and efficiency plots (p=1,2,4,8). Used Python, threading, multiprocessing, and matplotlib. Detected race conditions and fraud flags.

Linux OS Analysis (Ubuntu on VirtualBox)

03/2026 - 05/2026

Analyzed process/thread management, scheduling, synchronization, memory management, and security model. Used htop, strace, and ps aux to trace system calls. Documented ethical/legal aspects of OS design.

A* Search Planner for Student At-Risk Recovery

03/2026 - 05/2026

Built a Python desktop dashboard (Tkinter/PyQt) that generates optimal recovery plans using A* from scratch. Defined 6+ actions, custom heuristic, and cost model. Compared with Greedy and Uniform

Cost Search. Included what-if simulations and plots.

FSM Controller (Moore Machine)

10/2025 - 12/2025

Designed memoryless and memory-based finite state machines (VHDL/Verilog). Simulated state transitions, memory addressing, and completion signals. Synthesized on FPGA (LED output). Discussed multithreading concepts.

Database Design & Implementation

10/2025 - 11/2025

Modeled a real-life system (e.g., Hospital/Library Management) using ER and relational models. Applied normalization (1NF-3NF). Implemented SQL queries (MySQL). Addressed data privacy, GDPR compliance, and ethical access controls.

Campus Event Management System

06/2025 - 08/2025

Built a GUI application for campus event registration and fee calculation using Java Swing. Applied OOP principles (inheritance, polymorphism) and the Builder design pattern for flexible registration creation. Features: event creation, participant registration with optional services, automatic fee calculation.

Network of Human Apoptosis Protein Interaction With Graph Theory 04/2025 - 05/2025

Analyzed protein-protein interaction (PPI) networks using Python and NetworkX. Extracted key metrics: node/edge counts, density, average degree, clustering coefficient, connected components, diameter, and centrality measures (betweenness, closeness, eigenvector). Created visualizations to highlight structural and functional network properties.

Java Supermarket System

03/2024 - 05/2024

Java application for managing supermarket operations, including customer, product, sales, and stock data. Demonstrated Java proficiency and OOP in a business scenario, establishing a foundational system for data persistence and business logic.

Food Ordering System

09/2023 - 10/2023

Console-based C++ food ordering system for multiple restaurants, handling menu display, cart management, and total cost calculation with VAT and delivery.

COURSES

- Advanced Algorithms and Complexity – Coursera
- Operating Systems – Coursera
- Artificial Intelligence Technology and Applications – Huawei ICT Academy
- Network HCIA-Security – Huawei ICT Academy
- Python Programming Basics – Huawei ICT Academy
- Getting Started in Cybersecurity – Fortinet
- Technical Introduction to Cybersecurity – Fortinet
- Introduction to the Threat Landscape – Fortinet
- FortiGate Operator – Fortinet
- Internet Safety – Fundaula

AWARDS

- Dean's List, American University of Ras Al Khaimah – Fall 2023, Fall 2024, Spring 2025, Fall 2026

LANGUAGES

English (Fluent), Arabic (Native)