

Rakan Alalami

Computer Scientist | Data Strategy Analyst | Technology Solutions Innovator | Scrappy Guy

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Professional Summary

Dynamic and forward-thinking professional, grounded in computer science and economics, driven by a passion for crafting innovative solutions. Possessing a diverse range of experiences in the banking sector and high-tech environments. Skilled in harnessing AI technologies, demonstrated through significant achievements in hackathons. I offer a unique combination of technical acumen and inventive problem-solving capabilities.

Education

Computer Science Major at McGill University

Minor in Computer Science & Economics

Montreal, QC

Graduating Summer 2024

Relevant Coursework:

Software Design, Functional Programming, Robotics, Computational Biology Methods, Artificial Intelligence, Robotics & Intelligent Systems, Database Management, Advanced topics in AI, Computer Graphics.

Student Clubs: Google Student Developer Club, McGill Robotics Club

Amman Baccalaureate School

Amman, Jordan

Key Achievements:

May 2020

- Recipient of the STEAM Award, due to
 - Full-stack development of Edulute (A web-app designed to provide teaching solutions as schools transitioned to online teaching during covid)
 - Founding of Feed Initiative (Raised \$10,000 in funds and established Feed, a co-operative bakery on the outskirts of Amman which feeds the a center for disabled children & the neighbouring area.

<https://www.jordantimes.com/news/local/benevolent-teenager-helps-jordan-valley-community-bring-bread-their-tables>

Professional Experience

Amazon Fulfillment

Montreal, QC

Process Assistant

June 2023-August 2024

- Oversaw operations through Amazon Logistics; developing crucial knowledge on the technology and rigour behind Amazon Prime's one-day delivery.
- Managed associates to reach a daily minimum of 30,000 packages processed daily.

PILLARS Fintech

Amman, Jordan

Software Engineer

September 2022 - December 2022

- Worked on API endpoint implementation and front-end on a user-friendly mobile remittance application using Flutter and Android Studio. The App was accepted into the iOS app store.
- Oversaw database operations for Pillars Portal, upholding Anti-Money Laundering (AML) standards, crucial for financial institution usage. Ensuring correct E/R schemas.

PROGRESSOFT

Amman, Jordan

Software Engineering Intern

June 2021 - August 2021

- Assisted in a porting project for the National Bank of Oman, ensuring software compatibility across various platforms and databases.
- Played a key role in a team developing a Central Bank Digital Currency prototype, focusing on blockchain technology and efficient transaction handling.
- Integrated ProgressSoft's software with mobile payment applications using SDKs, enhancing connectivity and payment functionalities.

MAWDOO3.COM

Amman, Jordan

Software Engineering Intern

June 2020 – August 2020

- Contributed to data collection, reinforcement learning, and integration of Salma AI. An Arabic AI financial assistant.
- Managed website content updates, honing skills in version control with Git.

Hackathon Participations:

GenAI Earthhack

Honourable Mention: Most Innovative Project

- Developed CourtRoom; a user-friendly portal to evaluate a large database of Business Ideas.
- Model works through the creation of various AI instances to debate feasibility of an idea through an internal court system.
- Chosen from some 200+ groups to the final round.
- <https://github.com/Karanvir1729/CourtRoom>

Montreal, QC

January 2024

McHacks

To be completed January 29, 2024

Montreal, QC

Projects

COMP 424 (Artificial Intelligence) - Colosseum Survival AI agent

- Implemented a board-game AI agent with a 97% winning strategy
- Utilized a mix of Monte-Carlo Tree Search & Upper Confidence Trees when creating this agent.
- Scored in the top 10% of class of 300 students in a class competition of game-playing AI agents.

COMP 462 (Computational Biological Methods) - Simulation of Population Genetics Evolution

- Developed a program to simulate the evolution of a population of 10000+ diploid individuals over multiple generations. Representing each individual through a pair of binary vectors corresponding to thousands of SNPs, accurately depicting genetic variations
- Conducted analytical calculations and statistical simulations to determine the probabilities of allele extinction over a time scale up to 1000 generations.
- Implemented fitness-based parent selection. Allowing for realistic modelling of human evolutionary processes.

Tiktok Adapter

- Currently working on a Software Service which utilizes AI and Youtube insights to generate multiple TikTok's (assessed for vitality for the client).
- Implemented successful user-authentication systems and cloud-video storage system for the project.

Areas of Expertise

Programming Languages

- C, C++, Java, Python
- HTML, Javascript, Node.js, React.js, Flask, Bootstrap
- Flutter, Swift

Database & Scientific Computing

- MATLAB, STATA, SQL, Solidity
- Google Cloud, AWS

Software Design & Dev Tools

- AutoCAD
- Adobe Premier & Photoshop