Rakan Alalami

Computer Scientist | Data Strategy Analyst | Technology Solutions Innovator

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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 and ensuring AI fairness, 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   Montreal, QC
   Minor in Computer Science & Economics   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 a center for disabled children & the neighbouring area.

Professional Experience

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.

PROGRESSSOFT   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   Montreal, QC
Honourable Mention: Most Innovative Project   January 2024
- 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**

McHacks   **Montreal, QC**
To be completed January 29, 2024

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.

NFT Project Deployment - Full Stack Deployment of Smart Contracts
- Deployed an NFT smart contract which was deployed to the Ethereum blockchain.
- Deployed Wallet connection and Minting abilities onto the front end.
- The contract resulted in over 1515 mints, The collection sold out in around 24 hours.
- https://etherscan.io/token/0x7ce3ccab165ff4553810723ea275f8b3d4f36ccc

Areas of Expertise

Programming Languages
- C, C++, Java, Python
- HTML, Javacript, 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