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Marzookh Farook

Senior Year Student

GitHub: marzookh
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SKILLS

Tools and Languages	Python, SQL, Java, React, Linux, R, Tableau, Git, Selenium, Cypress, Docker
Quantitative Research	Statistical analysis, Data Modeling, Data Validation, Advanced Excel, Complexity analysis

TECHNICAL EXPERIENCE

Software Development Engineer Intern <i>Citi</i>	05/2023 — 08/2023 <i>Toronto, Canada</i>
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- Part of the Foreign Exchange QA team, working on the Forex trading application.
- Write and automate tests in **Selenium** to ensure that systems and applications meet specified standards and end-user requirements.
- Execute a **CI/CD pipeline** with **Jenkins** for deploying application updates across multiple environments.
- Improve existing application dashboard to track resource utilization and performance metrics at scale.

Engineering Intern - Data Team <i>Illumio</i>	05/2022 — 09/2022 <i>California, United States</i>
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- Part of the **QA Data team**, moved **JUnit** tests from a **Java** framework in **Selenium** to a **JavaScript** framework in **Cypress** which **reduced manual work by 10x**.
- Wrote and automated unit tests to thoroughly test different segments of Illumio's PCE Core product before being pushed through our **CI/CD pipeline** on Jenkins into production.
- Streamlined team collaboration by creating **product backlog and requirements doc** to prioritize features and find blockers.

Software Engineer Intern <i>LINCS</i>	09/2021 — 04/2022 <i>Edmonton, Canada</i>
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- Developed an NLP tool using **SQL** in **Python** and **AWS** to assist with conversion of **large datasets** to **linked open data**, deployed it using a **RESTful API**, and hosted it on Compute Canada's Servers using **Kubernetes**. An article on the tool can be found [here](#)
- Applied the knowledge gained in system features and technology standards to troubleshoot issues in production and development of the project
- Used **Pyspark** to improve the speed and accuracy of time series analyses in order to forecast linked data results better
- Assisted in **Testing and validating** the performance of data processing and conversion tools

EDUCATION

University of Alberta, BSc. Computing Science, specialization in software practice	2021 - 2024
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| • Coursework in Data Structures & Algorithms | • Python I&II, File and database management with SQL |
| • Embedded systems programming | • Real-Time OS Programming Coursework |
| • Object Oriented design, Software Practices, Scrum | • Computer Systems |

Al Diyafah High school, A Levels, British curriculum	2020
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PROJECTS

Social Distribution	2022
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Twitter clone built using Django for backend and React for frontend

- Modular Architecture, Uses SQL in Python for database migrations.

PhenoCount	2021
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PhenoCount is an easy-to-use Android mobile application that allows for crowd-sourced testing of phenomena.

- Understood user stories and implemented user requirements
- Firebase Firestore used for real-time data integration
- Google map API for location services

ACTIVITIES

Future Creators - Team Lead	2021-2022
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Future Creators is a non-profit organization that inspires future engineers and technology innovators

- My team and I work with students in grades 5-12 to provide after-school mentorship and help them build their projects.

Hack The North - Developer	2021
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- Developed a stock inventory application in Python with a team of 3

CERTIFICATIONS

Cisco Certified Network Associate (CCNA) - Routing Switching, Cisco Learning	2021
Machine Learning Concepts, Kaggle	2021