

(825) 343-1902
Edmonton, Canada
farook@ualberta.ca

Marzookh Farook

Senior Year Student

GitHub: marzookh
LinkedIn: marzookh

SKILLS

Tools and Languages Python, Java, JavaScript, React, HTML, CSS, SQL, Java, Linux, jQuery, Git, Selenium, Cypress, Docker
Quantitative Research Statistical analysis, Data Modeling, Data Validation, Advanced Excel, Complexity analysis

TECHNICAL EXPERIENCE

Vehicle Software Intern 09/2023 — 01/2024
Tesla California, USA

- Part of the Applications Engineering team, managing Tesla's proprietary ERP Warp software.
- Implemented a streamlined **CI/CD** pipeline on Jenkins, efficiently deploying application updates across environments.
- Improved system reliability and compliance by writing and automating tests in **Selenium** and **Python**.
- Contributing to increased automation coverage for regression and integration tests.
- Achieved a 91% bug-free project during a critical testing phase of feature which was recognized by project manager.

Software Development Intern 05/2023 — 08/2023
Citi Toronto, Canada

- Part of the Foreign Exchange UI team, worked on the FX Velocity trading application in Angular and JavaScript.
- Redesigned components utilizing Angular material and CSS to enhance user experience and optimize functionality.
- Writing and automating tests in Mocha, ensuring adherence to specified standards and end-user requirements.

Engineering Intern - QA Data Team 05/2022 — 09/2022
Illumio Sunnyvale, USA (Remote)

- Migrated **JUnit** tests from a **Java** framework in **Selenium** to a **JavaScript** framework in **Cypress** reducing 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.
- Integrated low-latency technologies into the existing application to track resource utilization and performance metrics, achieving optimal efficiency.
- Streamlined team collaboration by creating product backlog and requirements doc to prioritize features and find blockers.

Software Engineer Intern 09/2021 — 04/2022
LINCS Edmonton, Canada

- Developed an NLP tool using **SQL** in **Python** and **AWS** to assist with the conversion of large datasets to linked open data.
- Deployed tool using a **REST API**, hosted it on Compute Canada's Servers using **Kubernetes**. Check out [this](#) article on the tool!
- 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

- Data Structures & Algorithms
- Python I&II, File and database management with SQL
- Object Oriented Design
- Real-Time OS Programming

PROJECTS

Social Distribution 2022

- Twitter clone built using Django for backend and React for frontend*
- Modular Architecture, Uses SQL in Python for database migrations.

PhenoCount 2021

- PhenoCount is an easy-to-use Android mobile application that allows for crowd-sourced testing of phenomena.*
- Firebase Firestore used for real-time data integration, Google map API for location services

ACTIVITIES

Future Creators - Team Lead 2021-2022

- Future Creators is a non-profit organization that inspires future engineers and technology innovators*
- My team and I work with high school students in grades 8-12 and help them build exciting coding projects

Hack The North - Developer 2021

- 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