MALIK HERON

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Skills

- CSS | HTML | Java | Kotlin | NodeJS | Prolog | Python | Sass | SQL | Typescript
- Bootstrap | Jetpack Compose | React
- Figma | Firebase | Git | GitHub | Google Cloud Platform

Experience

Software Engineer — **Best TV Communications** — *Jamaica* — **08/2022 - 12/2022**

- Led the design and development of an app which aimed to simplify payments and improve client communication. It includes an overview of services, a bill payment system, data usage visualization, a support chat, and an outage map, all designed to enhance user experience. Technologies used: **Firebase, Jetpack Compose and Kotlin**.

Education

Bachelor of Science — **University of Technology** — *Kingston, Jamaica* — **08/2020 - Present**

- Major in Computer Science

Projects

Academic Advisor Chatbot — https://utechchatbot.web.app/

- This collaborative effort resulted in a virtual academic advisor for computing students. It uses the **GPT4 model** via the **OpenAI API** to provide academic advice, share policy information, and updates on important deadlines. Written in **JavaScript** and **TypeScript**.

Academic Probation System

- In a collaborative project for an Artificial Intelligence course, we developed an academic probation system using **Prolog** and **Python**, for the University of Technology, Jamaica. The system calculates students' cumulative GPA, issues alerts to various university members, and manages the database.

Honeypot — https://bit.ly/3utZX7V

- Implemented a honeypot system using **Python**, with packet capture, intrusion detection, and alerting.

Priority Non-Preemptive Scheduler — https://bit.ly/3HSGrVM

- A project to simulate a small process management system using **Java**. It uses a priority non-preemptive scheduling scheme when executing processes on a dual-core (2 CPU's) processor system.

Simulated Vending Machine — https://bit.ly/483uA1O

- A project that uses a multi-tape Turing machine and register machines to operate a vending machine, written in **Kotlin**.

Six Degrees of Separation — https://bit.ly/4brhBKf

- Implemented an algorithm in **Python**, that finds the degrees of separation between two people and recommend to each person's close contact, all the activities that the person is engaged in.

Extra-Curricular Activities

- **FutureDevs Club** — **09/2023 – Present**
- **Google Student Developer Club** — **05/2022 – 09/2023**

Awards & Certifications

- **Dean's List Award** — **2021/2022 Academic Year**
- **Dean's List Award** — **2020/2021 Academic Year**