MALIK HERON

Innovative software developer striving to create efficient and effective algorithms. I am a creative thinker, adept in software development and working with various data structures.

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SKILLS

Programming Languages	CSS, HTML, Java, Kotlin, NodeJS, Prolog, Python, Sass, SQL, Typescript
Libraries & Frameworks	Bootstrap, Jetpack Compose, ReactJS
Tools & Platforms	Figma, Firebase, Git, GitHub, Google Cloud Platform

EXPERIENCE

Software Developer — **Best TV Communications** — 08/2022 – 12/2022

- Led the design and development of an app which aimed to simplify payments and improve client communication. It includes 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**.

PROJECTS

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

- This collaborative effort resulted in a virtual academic advisor for computing students. Sophie 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 — https://bit.ly/42EeBpW

- 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 recommends to each person's close contact, all the activities that the person is engaged in.

EDUCATION

Bachelor of Science in Computing — *University of Technology, Jamaica* — 2020 – Present
Major in Computer Science

AWARDS & CERTIFICATIONS

Dean's List — *University of Technology, Jamaica* — 2021/2022

Dean's List — *University of Technology, Jamaica* — 2020/2021

EXTRA-CURRICULAR ACTIVITIES

FutureDevs Club — 09/2023 – Present

Google Developer Student Club — 05/2022 – 09/2023