

# 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

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University of Technology, Jamaica

2020/2021



## EXTRA-CURRICULAR ACTIVITIES

### FutureDevs Club

09/2023 – Present

### Google Developer Student Club

05/2022 – 09/2023