





# 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.

 Jamaica

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 <https://malikheron.github.io>

 <https://github.com/malikheron>

## SKILLS

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

## EXPERIENCE

- **BestTV Communications**- Software Developer  
August 2022 — December 2022
  - Tasked with creating a mobile application to make payments and communication easier with clients. Features include a service overview, bill payment system, data usage visualization, support chat and an outage map.

## PROJECTS

- **Academic Advisor Chatbot**  
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 information on important deadlines.  
<https://utechchatbot.web.app/>
- **Academic Probation System**  
In a collaborative project for an Artificial Intelligence course, we developed an academic probation system using **Python** and **Prolog**, for the University of Technology, Jamaica. The system calculates students’ cumulative GPA, issues alerts to various university members, and manages the database.
- **BTC Mobile App**  
I led the development of a mobile app for BestTV Communications, an ISP in Trelawny, Jamaica. The app 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.
- **Honeypot**  
Implemented a honeypot system with packet capture, intrusion detection, and alerting.  
<https://github.com/MalikHeron/Honeypot.git>
- **Priority Non-Preemptive Scheduler**  
A project to simulate a small process management system which uses a priority non-preemptive scheduling scheme when executing processes on a dual-core (2 CPU’s) processor system. <https://github.com/MalikHeron/Priority-Non-Preemptive-Scheduler.git>
- **Six Degrees of Separation**  
Implemented an algorithm 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. <https://github.com/MalikHeron/Six-Degrees-of-Separation.git>
- **Simulated Vending Machine**

A project that uses a multi-tape Turing machine and register machines to operate a vending machine. <https://github.com/MalikHeron/Turing-Machine.git>



## EDUCATION

- **University of Technology, Jamaica**  
BSc. In Computing  
2020 – Present
- **Manchester High School, Jamaica**  
CAPE  
2018 – 2020
- **Spalding High School, Jamaica**  
Diploma, City & Guilds, CSEC  
2013 – 2018



## AWARDS & CERTIFICATIONS

- **Dean's List** – 2020/2021 Academic Year  
University of Technology, Jamaica
- **Dean's List** – 2021/2022 Academic Year  
University of Technology, Jamaica
- **Certificate in Business Studies** – 2018  
Caribbean Examination Council



## EXTRA-CURRICULAR ACTIVITIES

- **Google Developer Student Club**  
May 2022 – September 2023
- **Computer Science Club**  
Assistant Treasurer  
September 2019 – July 2020
- **4H Club**  
Vice President  
September 2017 – July 2018
- **Prefect**  
September 2016 – July 2018



## REFERENCES

- Available upon request