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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malik.heron2001@gmail.com

https://malikheron.github.io

https://github.com/malikheron

SKILLS

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

EXPERIENCE

BestTV Communications - Software Developer
August — December 2022

- Created 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.

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. Written in **JavaScript** and **TypeScript**. https://utechchatbot.web.app/

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
Implemented a honeypot system using **Python**, 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 using **Java**. It 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

Simulated Vending Machine
A project that uses a multi-tape Turing machine and register machines to operate a vending machine, written in **Kotlin**. https://github.com/MalikHeron/Turing-Machine.git

Six Degrees of Separation
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. https://github.com/MalikHeron/Six-Degrees-of-Separation.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