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://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 2022 — 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