

HAMZAH AZAM

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TECHNICAL EXPERIENCE

Capstone Project

- **Smart Farming Stick Prototype.** Android app where users can measure pH, sunlight, moisture of their soil, as well as get recommendations on ways to improve. **Java, Python, Raspberry Pi, Android Studio**

Academic Projects

- **Computer Control In Robotics.** Robotics project consisting of 3 group members. Automated the kinematics model of robotic arm to reach desired objects within XYZ plane. **MATLAB**
- **Hotel Management System.** A hotel management system for both customers and employees to book hotel rooms/manage bookings. Provided both a customer interface and an employee interface. **PostgreSQL, C#**

Side Projects

- **Tic-Tac-Toe.** Simple Tic-Tac-Toe game to freshen up on basic Java programming skills. **Java**
- **Password Cracker.** Cracked passwords of "leaked accounts" with encrypted passwords, using list of common passwords and SHA-1 hash. **Java**
- **Blockchain Transaction.** A Java program able to read, validate, write a blockchain. Ability to append blockchain with new blocks and get balance of given user on blockchain. **Java**
- **Personal Website.** A personal website project to learn web development skills. **HTML, CSS, JavaScript**
- **Minesweeper.** Minesweeper game with customizable grid size/mines developed within Java using JFrame and object-oriented programming principles. **Java**

EDUCATION

University of Ottawa, Ottawa ON

September 2017 – April 2021

- B.A.Sc. in Computer Engineering. GPA: 3.3
- Relevant Coursework: Intro to Computing (I-II); Digital Systems (I-II); Computer Architecture (I-III); Data Structures and Algorithms; Intro to Software Engineering; Software Construction; Computer Systems Design; Intro to Data Communication and Networking; Operating Systems.

SOFT SKILLS

- Flexible team player who thrives in environments requiring ability to effectively prioritize and juggle concurrent projects.
- Adaptable to changes in computer language and technology to continuously upgrade my skills.
- Patient and methodical when dealing with complex systems or coding errors.
- Strong analytical and problem-solving skills, with the ability to make well thought out decisions.
- Tolerant and flexible in all situations as required while working with colleagues or team members.
- Open minded and willing to grow through constructive feedback.

LANGUAGES AND TECHNOLOGIES

- Java; C; Python; Assembly Programming; Golang; Scheme; Prolog; Scheme; SQL; XML; HTML; CSS; MATLAB
- Android Studio; PostgreSQL; Eclipse; Microsoft Office; Visual Studio Code; GitHub; Jira; Agile