MOHAMMAD HASAN

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EDUCATION

University of Toronto	**Toronto, ON**
Bachelor of Science, Specialist in Computer Science	Sep 2018 – Jan 2022

Relevant Coursework: Data Structures & Algorithms, Software Design, Full-Stack Web Development, Database Design, Neural Networks & Deep Learning, Natural Language Processing, Operating Systems, Video Game Design

SKILLS & CERTIFICATIONS

Languages: Python, Java, C, C#, HTML/CSS, JavaScript, SQL

Frameworks: React, Node.js, Express, Django, Flask, .NET

Technologies: Git, Unix, PostgreSQL, MongoDB, TensorFlow, PyTorch, Android Studio, Unity

Certifications: Certified Associate in Python (*Python Institute*)**,** Certified Data Scientist (*DataCamp*)

PROFESSIONAL EXPERIENCE

MetaVision Labs	**Toronto, ON**
*Software Engineer	C#, Unity, React*	May 2021 – Present

- Developed a 2D game in **C#** and **Unity** and helped design the vision and implementation of game features
- Integrated Smart contracts into the game by developing a **REST API** that aggregates contract data and updates the game
- Developed company website in **React** and engineered SEO for the website in order to attract visitors
- Performed product design role and helped in launching prototype 3 weeks earlier than planned
- Secured up to $100K in funding for cloud services by registering with Amazon's AWS Activate Portfolio program

CustomerBuds	**Toronto, ON**
*Full-Stack Web Developer	Python, Django*	May 2021 – Aug 2021

- Developed a full-stack website with a landing page and a backend for blog posts, using the **Django** framework
- Conceptualized the design of the website and improved the user experience of the website

HiGarden – The Guardian App	**Toronto, ON**
*Game Developer	C#, Unity*	Sep 2020 – Dec 2020

- Developed a planting simulator game in **C#** and **Unity** with a team of seven and worked in an Agile environment to expand and deploy the game
- Advanced the game by adding several new levels and managed to significantly decrease the size of the game by 73% by using design techniques such as object pooling

PROJECTS (check website for more!)

Job Applications Tracker	**Toronto, ON**
React, Node.js, Express, MongoDB	Sep 2021

- Developed a full-stack web app with user authentication that allows users to add and track the status of their job applications, including what stage they are at and the recruiter information to be able to quickly send emails

Pizza Parlour REST API	**Toronto, ON**
Python, Flask, HTML, CSS	Dec 2020

- Designed and implemented a RESTful API that handles online orders for a virtual restaurant with the **Flask** framework
- Created a set of comprehensive tests that resulted in 92% coverage, using **Python unit-tests** and **Mocha** testing

Motion Detector	**Toronto, ON**
Python, OpenCV, Bokeh	Dec 2020

- Designed an app that records video from a webcam, detects motion and then outputs the motion onto an interactive time graph with around 97% accuracy

Game Center	**Toronto, ON**
Android Studio, Java, UML, SQLite	Dec 2020

- Developed an Android app with 3 mini-games in it – a Math speed run game, a whack-a-mole game, and a card-matching game
- Implemented the app using various design patterns, and used a SQLite database to hold users' scores and assist in user authentication