

# MOHAMMAD HASAN

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## EDUCATION

### University of Toronto

Bachelor of Science, Specialist in Computer Science

Toronto, ON

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, AWS, Unix, PostgreSQL, MongoDB, TensorFlow, PyTorch, Android Studio, Unity, Houdini

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

## PROFESSIONAL EXPERIENCE

### SideFX Software Inc.

Web Developer / Python, Django, Angular, Vue, Linux

Toronto, ON

Oct 2022 – Present

- Developed an anti-piracy tool that effectively identified unauthorized use of our company's software, **Houdini**, by both individual and corporate users, directly contributing to a 20% increase in projected sales and bolstering intellectual property protection
- Streamlined **Houdini**'s licensing process by automating installation and deactivation, cutting customer setup time by 50% and significantly improving user experience with more efficient license management
- Engineered various internal tools and workflows for development, sales, and customer support teams, which streamlined processes, improved productivity and contributed to enhanced support efficiency
- Maintained the company website and gauged user engagement in response to new features, guiding product development and improving customer retention

### MetaVision Labs

Software Engineer / C#, Unity, React

Toronto, ON

Mar 2022 – Aug 2022

- 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
- Created documentation for the entire workflow of the game and the tests, as well as all the previous and potential errors
- 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

### CustomerBuds

Full-Stack Web Developer / Python, Django

Toronto, ON

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

Game Developer / C#, Unity

Toronto, ON

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

### QuickForms

Next.js, React, Tailwind, Prisma

Toronto, ON

Dec 2023

- Engineered a dynamic form-building web app utilizing **Next.js** and **React**, offering intuitive design capabilities with **Tailwind CSS** for customizable, embeddable forms
- Incorporated **Prisma** for robust database management, allowing for seamless integration of form submissions with a variety of CRM systems, through each of their individual APIs, optimizing data flow and user engagement

### Controlify

React, Python, Django

Toronto, ON

Aug 2022

- Developed a full-stack web app that uses the **Spotify API** to allow users to login with their Spotify accounts, join rooms with other users, and control what music to play together

## **Job Applications Tracker**

**Toronto, ON**

*MongoDB, Express, React, Node.js*

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, as well as manual endpoint testing using **Postman**