

Zach Lucas

Software/Web Developer

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Relevant Experience

Web Developer @ BitSubmit

May 2018 – April 2019 // Hamilton, ON

- Contracted to implement updates to website: including restructuring major functions and adding new features using PHP, jQuery, and SQL.
- Normalized old database and moved old data to newly reconstructed database.
- Used PHP and jQuery to create new functions such as new payment options and ability to skip queue by paying.

VR Developer @ Mohawk College (Project Name: The Bear Coin)

September 2018 - May 2019 // Hamilton, ON

- Collaborated with a team of animators to create a VR application for the Hamilton Public Library.
- Programmed user interactions between objects and NPCs using a combination of C# and the Unity Engine.
- Prepared scripts and assets in advance to receiving assists from the animators to prepare interactions in advance.

AR Developer @ Mohawk College (Project Name: Cloud DX)

July 2018 - August 2018 // Hamilton, ON

- Designed and developed an AR UI display to appear around an individual when the device's camera is pointed at someone.
- Created a small database using C# for the application to read health information from for the prototype demonstration.

AR Developer @ Mohawk College (Project Name: AR Konzelmann Winery)

April 2018 - July 2018 // Hamilton, ON

- Worked as part of a team to develop an AR application for a company based in Niagara.
- Learned to work in a collaborative environment with other programmers using Unity's collaboration function.
- Gained experience using Amazon S3 cloud-based computing services to dynamically load assets as needed by the program to decrease load times.

Web Developer @ Mohawk College

June 2017 – August 2017 // Hamilton, ON

- Worked in a team environment to develop and design a web application for use by a professor to help teach students musical analysis.
- Worked independently to implement a QR code reader into an iOS application which read a QR code using a camera would load the web application.
- Developed knowledge using iOS software and development for creating an iOS application.

Skills

Programming Languages

JavaScript, HTML, CSS/Sass, Python, PHP, Java, C#, XML, SQL, X-Code, Visual Basic

Libraries & Frameworks

jQuery, React, Vue, Node.js, AJAX, JavaFX, ASP.NET, Bootstrap

Tools & Platforms

Git, Heroku, WordPress, Unity, Unreal Engine, Visual Studios, Windows, Linux, Mac

Education

Mohawk College

2016 - 2019 // Hamilton, ON
Ontario College Advanced Diploma (3-Years)

Expected Graduation date: November 2019 (requirements met)

Projects

Ultimate Werewolf

Console app built in Python with 4 AI bots to play the multi-player game, Ultimate Werewolf. 3 bots use simple strategies and the last bot uses a more advanced game theory algorithm.

NICU Mobile app

A mobile application developed for the McMaster Children's Hospital NICU department. The application allows parents to track their baby's growth and help answer questions for parents.

Kerry On

A virtual personal assistant created during a 2-day Hackathon Event in Kitchener. The prototype app was created to help elderly people with social isolation by assisting them in their daily lives.

Interests

Game Development, VR/AR Tech, Music, reading, Gaming

** To view my projects in greater detail, please visit <http://ZachLucas.ca>