

# Zihan Zhang

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Master of Engineering Student from University of Toronto

## ABOUT ME

Two years of experience working with Python, HTML, Swift and MySQL.

Experience working with Unity and C#.

Experience with JavaScript, jQuery, node.js and React.js.

Solid physics and mathematics background.

Familiar with data structure, algorithm and object-oriented programming.

Passionate about learning new things and developing world-class application.

## EDUCATION

Bachelor of Science: Physics (Sep 2014 – Jun 2018), University of Toronto

- Dean's List Scholar (2017-2018)
- Graduate with high distinction (Average GPA higher than 3.5)
- Minored in Mathematics
- Did advanced physical experiments including X-ray fluorescence, Quantum Interference and Entanglement and Measurement of the Compton total cross section.
- Took a graduate level high energy course.

Master of Engineering: Computer Engineering (Sep 2018 – Jun 2020), University of Toronto

- Learned data structure and algorithm, cloud computing and mobile app development
- Learned data science and machine learning (Python and Scikit-learn, which is a free software machine learning library for the Python programming language)
- Average GPA 3.6

## PROJECTS

Notate (term project)

- An iOS app written in Swift which transcribes melodic ideas recorded by the device's built-in microphone into traditional Western music sheet.
- Responsible for writing the front-end of Notate, including most of the UIs and displaying sheet music (using JavaScript).
- Tested on iOS 13.4.
- Built under the supervision of Professor Jonathan Rose.

### Fake Instagram (Individual)

- An iOS app written in Swift (SwiftUI) which allows users to share photos as well as the the corresponding comments with others.
- Used Google Firebase to perform user authentication and data storage.
- Tested on iOS 13.3.

### Receipt Reader

- A Python flask project deployed using AWS Lambda, allowing users to keep track of their expenditure by taking a photo of their receipts and uploading it to the server.
- Wrote code for storing images uploaded by users to AWS S3 Bucket, getting and updating information in Amazon Relational Database Service (DynamoDB, MySQL).
- Responsible for writing the back end of the project (Python) and the HTML part of the front-end.

### Tower of the Sorcerer (Individual Unity Project)

- Remade the game Tower of the Sorcerer (N.W 1996) using Unity and C#
- Used only the textures from the original game.
- Had a deeper understanding in inheritance and polymorphism when handling with different types of enemies in the game.

## WORK HISTORY

### Intern at Suzhou TF-AMD Semiconductor Co., Ltd. (Aug 2019 – Sep 2019)

Helped installing operating systems on new computers, fixing hardware and software issues for other employees. Reduced workload at the helpdesk.

### Intern at Suzhou Huigu Intellectual Property Service Co., Ltd. (Aug 2018 – Sep 2018)

- Examined intellectual properties using the Global Design Database managed by the World Intellectual Property Organization (WIPO). Helped customer understand the situation of their inventions in application.
- Wrote introduction for a project concerning geographic information technology owned by companies around the world.