

# Alex Luu



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Luu-Alex

## Education

**University of Toronto** B.S. In Computer Science

Class of 2021

## Experience

### Loopio

April 2019 – Present

#### Software Developer – Search and Library Users Team

- Built an interface for users to access their library as a knowledge-management solution with React, PHP and MySQL
- Shipped the Library Users feature. It was demoed to over 200 customers and was a highlighted at Loopicon 2019
- Integrated abstract syntax trees for queries creating better Boolean search results for customers
- Collaborated with team designers and product managers to contribute to research and complete Jira tickets
- Worked with React and PHP creating test suites for bitbucket pipelines to maintain high standards of code

### University of Toronto

Sept 2018 – April 2019

#### Teaching Assistant, Introduction to Computer Programming

- Taught Python to a class of 30 students through exercises and lectures
- Worked with the professor creating lessons about the curriculum for upcoming tutorials

## Projects

### PixelArena

Jan 2018 – April 2019

#### Software Development project

- Worked with NodeJS, SocketIO, React and JavaScript to create a multiplayer pixelated Battle Royale
- Using an existing hashing library and JSON Web Tokens for secured authentication
- Supports mobile devices and desktop for cross-platform multiplayer

### PlaceHolder

September 2019

#### Hack the North 2019

- Created an application that allows students to find available seats within libraries using sensors
- Lead the team of 4 to create the server back-end API end point to allow the Raspberry PI to communicate

### SMS Assistant

January 2019

#### UofT Hacks 2019

- Personal assistant app that provides information on the internet through text messaging
- Used Twilio to receive and send text messages with its web API and NodeJS as a back-end to handle search queries and provide feedback

### BetterPlanner

June 2018 – July 2018

#### Open source Course Database

- Application built for UofT students in mind to simplify course selection, used by 500 users monthly
- Created with HTML, CSS, Python, Flask, and MongoDB to store over 10,000 courses
- Contributed Object-oriented programming and standard RESTFUL API practices (CRUD)

## Extra Curricular

### Hack Lab Organizer

Sept 2018 - Present

- Empower students with the intent to learn programming, projects and academics
- Organized and lead a server-side and front-end workshop for students interested in web development

## Skills

**Programming** Python, PHP, Node.JS, Javascript, C, Java, Git, C++, C

**Web** HTML5, Flask, EJS, CSS, SQL, MongoDB

**Frameworks** React, Mongoose, Passport, Express, EJS