

# Bill Liu

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## Education

### University of California, Los Angeles (UCLA)

Bachelor of Science, Computer Science

Relevant Coursework: Object-Oriented Programming with C++, Data Structures and Algorithms with C++

GPA: 3.91

Los Angeles, CA

Jun 2022

## Experience

### Logos News LLC

iOS Development Intern

Los Angeles, CA

Oct 2018 – Present

- Part of the mobile development team building an app using machine learning and natural language processing to socially engineer high-quality diverse news content
- Wrote front-end Swift and JavaScript to read and write data in the JSON format to and from Firebase databases
- Redesign and restructured back-end database structure to optimize the size and frequency of requests to the database, resulting in improved app load times and reduced feedback delay
- Implemented mapping feature that populated markers for the physical location of commenting users while working extensively with Google Maps API
- Developed several other user interface elements, such as the app settings and loading screen view controllers, resulting in an overall smoother user experience

## Projects

### Up2Date

JavaScript/Python

Flexible and customizable news query subscription platform that allows users to keep up with relevant news topics. Historical news data is scraped with Bing Search API to determine relevance threshold for newly released news, which is emailed to the user with Amazon SES. Implemented through a Django server hosted on Amazon's AWS Elastic Beanstalk and a front-facing Chrome browser extension with Firebase and Google authentication. Available on GitHub.

devpost.com/software/up2date

### Sincerely, AI

JavaScript/Python

Deep learning project designed to classify sincere text with model trained using transfer learning and over 1.3 million data samples of sincere and insincere text. Implemented back-end through Django and Ajax, designed and trained deep learning model with Keras and AWS, created a front-end web app, implemented Chrome and Firefox browser extensions, and integrated our web app with the Twilio API.

Available on GitHub.

devpost.com/software/sincerely-ai

### Micromouse

C++

Autonomous robot designed to find the center of a 16x16 maze with microcontroller programmed in C++. Employed algorithms such as floodfill, object-oriented programming in C++, designed, built, and routed schematic and PCB from scratch using Eagle, and debugged micromouse robot with Arduino.

Available on GitHub.

github.com/eptagoras/micromouse

### GravityFall

Unity/C#

Multiplayer platformer game built in Unity with movement and game physics scripting written in C#. Created in 12 hours during Hack on the Hill V @UCLA. Winner of the Best Game category at HOTH V.

Available on DevPost.

devpost.com/software/gravity-fall

## Skills

**Programming Languages:** Swift, C++, Java, JavaScript, Python

**Stacks:** AJAX, Django, React, Node.js, Firebase, Git, AWS, Elastic Beanstalk

**Software:** Microsoft Office Suite, Adobe Illustrator, Unity, Eagle, Arduino

**Languages:** English, French, Mandarin

## Awards and Certifications

Fall 2018 **Dean's Honors List**, recognized for high scholastic achievement in any one term.

Apr 2018 **Educational Computing Organization of Ontario (ECOO) Programming Contest Finalist**, recognized for qualifying for the provincial finals in the ECOO Programming Competition.

Dec 2017 **Diplôme d'études en langue française (DELFI) Level B2**, recognized for obtaining Level B2 in the DELFI French Examination.

Nov 2017 **Computer Science Subject Award**, recognized for outstanding achievement in an introductory computer science course.