

Joshua Lee

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Skills

Languages: Java, JavaScript/TypeScript, HTML, CSS, C#, C++, Python, ARM Assembly

Tools & Frameworks: Android SDK, Node.js, Angular2, Express, MongoDB, Travis CI, SQL, Firebase, Git

Experience

Apple

Cupertino, CA

Software Engineering Intern

Sept. 2017

- Joining Apple as a Software Engineering Intern for Fall 2017

D2L

Toronto, ON

Software Engineering Intern

Jan – Apr. 2017

- Restructured Mongoose schemas resulting in an **85% reduction** of memory usage consumed by the server
- Wrote a token based authentication service following **OAuth 2.0** protocol on both web and mobile platforms
- Designed a polling service which monitored the response of several Brightspace APIs for changes in state, pushing all necessary data to the appropriate services
- Allowed for a wide range of user input by training the natural language processing engine provided by Wit.ai
- Setup continuous deployment pipeline with automated unit testing using **Travis CI**, Bash, and Mocha

TD Innovation Lab

Waterloo, ON

Solutions Developer

May – Aug. 2016

- Followed Google Design Sprint principles to develop applications through ideation, wireframes, and prototypes while maintaining user centric design
- Wrote a **singleton cache** which was utilized to store persistent data, increasing the speed of saving and loading data by over **55%** as well as reducing the amount of on-device storage used by **100%**
- Developed an application for the **Microsoft HoloLens** using Unity3D, HoloToolkit and Blender3D
- Utilized the HoloLens's **spatial mapping** capability to generate a real-time mesh of the surrounding environment

Projects

Blabble (<https://github.com/joshlee96/blabble>)

- Developed virtual blackboard which enables users to anonymously post and share their thoughts
- Designed API to be RESTful and modular using **Node.js** and Express and ensured atomicity in all **MongoDB** operations

Task Plus (<https://github.com/joshlee96/taskplus>)

- Built an Android task managing application designed to help people stay organized via the use of “task groups”
- Stored persistent data using the **Realm** database, utilizing its ability to query and store data efficiently

Education

University of Waterloo

Waterloo, ON

Bachelors of Applied Science – Computer Engineering | Expected June 2020

2014 – Present

- Ranked 6th out of 90 classmates (2A term)