

# DavidCheung

<http://davidcheung.tk>

## contact

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[davidcheung.tk](http://davidcheung.tk)

## programming

C++, JavaScript, Java, PHP,  
SQL, ASP.NET MVC 5, C,  
Scheme/Racket, Python,  
CSS, HTML5

## frameworks + tools

NodeJS, ReactJS/Redux,  
Java Spring, Android, AWS,  
AngularJS, MongoDB, SFML,  
MapReduce, LibGDX, Bash,  
SocketIO, Heroku, Git,  
Google Maps API

## links

[github.com/cheung-david](https://github.com/cheung-david)  
[linkedin.com/in/cheungdavid1](https://www.linkedin.com/in/cheungdavid1)  
[DCGooglePlay.tk](https://play.google.com/store/apps/details?id=com.davidcheung.scriber)  
[Scriber.me](https://scriber.me)

## interests

Algorithms, Climbing,  
Entrepreneurship,  
App Development,  
Game Development,  
Powerlifting, Dancing,  
Data Analysis,  
Product Design,  
Stock Market

## extracurriculars

UW Computer Science Club  
Velocity Entrepreneurship

## Education

2014–Present **University of Waterloo, Bachelor of Computer Science - 3A**

## Experience

Jan–May  
2017

### Software Engineer | Zynga

Optimization Platform Team

- Reduced bandwidth and page load times by 12 times through caching, pagination, compression and data restructuring
- Architect and implemented a configurable user access permissions feature to increase security on their revenue optimization platform
- Implemented and improved features at an outstanding pace using Java, Spring Framework and JavaScript
- Wrote unit and integration tests in Jasmine and Groovy

Jan–May  
2016

### Software Developer | BlackBerry

Identity Management Team

- Architect and implemented the entire back-end of a user authenticated search engine that queried over 100 million rows
- Performed database and query optimizations on SQL Server
- Implemented user metrics to improve internal security using PHP
- Developed AngularJS Directives that utilized REST APIs
- Revamped the Web IT Portal. Redesigned core aspects of the site and implemented real time search and notifications using ASP.NET MVC 5

May–Aug  
2015

### Web Developer | Middlefield Capital

Information Technology Team

- Developed and implemented UI design layouts on a comparison site
- Produced UX related requirements and translated them into visual concepts

Sept 2016  
– Present

### Founder | Scriber | <http://Scriber.me>

Still In Development

- An image sharing social network designed for Android and web
- Architect and built the entire Android and web infrastructure
- Implemented the REST API backend with NodeJS/Express and the front-end with React Redux
- All web features utilize SocketIO for real time responses
- Deployed on AWS EC2, S3 and available on GooglePlay and Scriber.me

## Projects

August 2015  
– Present

### Elemental Jumper Game | Android | LibGDX

- Developed an open-sourced infinite jumper Android game
- Coded in Java with LibGDX as the API

March 2016  
– Present

### MeetUp | Web App | PHP | JavaScript | MySQL

- Real time geolocation and chat room for a group of users, users can create a custom room for members to join. Utilizes Google Maps API.

Dec 2015

### Chess | C++

- Co-developed a chess game that has four levels of heuristic AI, undoing moves, loading saved games and custom board setup
- Hardest AI implemented with Negamax and alpha beta pruning