

# David Zhang

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## EDUCATION

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### University of British Columbia

Sep 2013 – Present

BSc in Computer Science, anticipated graduation Dec 2018

GPA: 3.67

## EXPERIENCE

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### Amazon, Software Development Engineer Intern

Jun 2017 – Present

- Created Java REST service that ports existing Stripe functionality to standard payment plugin framework
- Successfully implemented a complete charge work-flow, opening up the way to a full port in the future
- Prototyped solution for asynchronous integration tests, using a service that receives and stores callbacks for querying
- Initiated collaboration with plugin framework team to standardize error handling between our services

### Shopify, Software Developer Intern

Jan 2017 – Apr 2017

- Optimized store performance, reducing worst case database calls from  $\mathcal{O}(n)$  to  $\mathcal{O}(1)$  using new caching strategy
- Enabled drag-and-drop menu editing by creating algorithms for constructing and validating menu trees in memory
- Upgraded menu admin panel by adding pagination and item ordering

### Hootsuite, Software Developer Co-op

Sep 2016 – Dec 2016

- Adapted in-house tools to create more consistent testing framework for webhooks
- Developed tools to migrate 15 legacy Scala libraries to new continuous integration build pipeline
- Designed, implemented and tested 4-5 REST API endpoints

### WhatToZee, Software Developer Co-op

May 2016 – Aug 2016

- Led design and implementation on new feature that lets users monetize their social media accounts
- Automated entry and retrieval of customer information with Salesforce using their API
- Integrated with Twilio to send internal alert notifications via SMS
- Completed original 2-month project in 3 weeks

## PROJECTS

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### Task Manager (Java, Oracle)

Jan 2016 – Apr 2016

- Desktop Swing client that allows projects, tasks, and issues to be managed and assigned to team members
- Added ability to have persistent users and built corresponding signup/login/logout interfaces
- Implemented assignments, allowing managers to assign tasks and allowing employees to see assigned tasks

### Skoolr (Ruby on Rails)

Sep 2015 – Nov 2015

- Web app that fetches and displays detailed information about Vancouver high schools
- Implemented routine to parse unconventional data format (Excel spreadsheet)
- Consolidated 5-7 data sources from VODC and DataBC to generate exam score, satisfaction, and high school data

### Mind the Gap (Android)

Jul 2015 – Aug 2015

- Mobile app that shows the train routes and schedules of the London Underground
- Used OpenStreetMaps library to draw routes and stations on interactive map

## LANGUAGES AND TECHNOLOGIES

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### Languages

C++, C, Java, Scala, Ruby, PHP, JavaScript, SQL

### Frameworks

Ruby on Rails, AngularJS, Play, Laravel

### Tools

Linux, Unix, Git, Bash, MySQL, Matlab, Jenkins