David Zhang

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EDUCATION

University of British Columbia   Sep 2013 – Present
BSc in Computer Science, anticipated graduation Dec 2018
GPA: 3.67

EXPERIENCE

Amazon, *Software Development Engineer Intern*   Jun 2017 – Aug 2017
· Created Java REST service that ports existing Stripe functionality to standard payment plugin framework
· Successfully implemented a complete charge work-flow, establishing the foundation for a full port
· 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

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

Languages	C++, C, Java, Scala, Ruby, PHP, JavaScript, SQL
Frameworks	Ruby on Rails, AngularJS, Play, Laravel
Tools	Linux, Unix, Git, Bash, MySQL, Matlab, Jenkins