David Lai

4A Computer Science

Experience

Microsoft
Software Engineer
<div align="right">Cambridge, MA
May 2017 to Aug 2017</div>

- Added support for cross-platform user resolution by creating a standardized encoding for user identities that is consistent across platforms
- Maintained existing user resolution functionality across different versions of Word and PowerPoint

Ingle International
Mobile Software Engineer
<div align="right">Toronto, ON
Sep 2016 to Dec 2016</div>

- Built Travel Navigator mobile app using React Native
- Improved render time by 50% by refactoring components to use Redux store
- Reduced load time for weather data via caching API results using RealmDB in iOS
- Automated process for importing LimeSurvey results to MySQL database using PHP Resque

FreshBooks
Software Developer
<div align="right">Toronto, ON
Jan 2016 to Apr 2016</div>

- Architected design to run multiple split tests by writing a Statamic plugin to place new users in correct pricing group
- Collaborated in a cross functional team using agile methodologies to redesign web pages for FreshBook's new product
- Increased user conversion rates by implementing A/B testing results from Optimizely

Metroland Digital
Software Developer
<div align="right">Toronto, ON
May 2015 to Aug 2015</div>

- Launched Back-to-School campaign page; automated weekly product updates in MySQL database using PHP
- Optimized image load time on mobile app by reducing API calls by automating the image save functionality
- Redesigned and integrated the shopping list feature using jQuery

IBM
QA Automation
<div align="right">Toronto, ON
Sep 2014 to Dec 2014</div>

- Improved Jenkins builds' stability by writing a batch script to monitor slave connections
- Reduced the average runtime of automated tests by 10%+ by refactoring scripts
- Maintained the quality of the product by managing 30+ selenium/VBA scripts

Projects

Real-time Microkernel
- Built a real-time microkernel to control multiple Marklin Trains using C

Auto Texter
- Developed a mobile app for sending texts automatically based on user defined rules. Built with React Native and Redux

Stocks Watch
- Competed in MHacks5 and created a web app to inform users of stock changes via SMS. Built using Ruby on Rails, Bootstrap, MySQL database, Twilio, and Stock Quotes API

Contact

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Skills

PROGRAMMING
C
C++
Java
JavaScript
PHP
HTML
CSS

FRAMEWORKS/LIBRARIES
React Native
Redux
Laravel
Bootstrap
MaterializeCSS
Ruby on Rails

DATABASE
MySQL
PostgreSQL

TOOLS
Visual Studio
IntelliJ IDEA
Android Studios
Xcode
Git
Optimizely
MySQL Workbench

Education

University of Waterloo
Candidate for Bachelor of Computer Science 2018