

Billy Liu

SOFTWARE ENGINEER · COMPUTER SCIENCE & STATISTICS STUDENT

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Experience

Software Developer - Contractor

Vancouver, BC

SCANTECH EFORMS

May. 2017 - Present

- Improve functionality, stability, and **UI/UX** of an enterprise application for financial advisors to automate completing PDF forms using **C#** with **WPF** in **Visual Studio**
- Expand capabilities of **SQL** and **Access** databases to handle more client information and options
- Implement Google Chrome extension to parse client data and create PDF files using **JavaScript** with **React + Redux**, **HTML5**, and **CSS**
- Implement and deployed an internal PDF form versioning system using **Python** and **PowerShell**
- Participate in **software design** and **code-review** sessions
- Work with and support clients such as RBC Global Asset Management, Fidelity Investments, and Canada Revenue Agency to improve processes

Software Developer - Co-op

Vancouver, BC

ANALYSISWORKS

May. 2016 - Dec. 2016

- Designed and built web application modules to visualize real-time health-care data using **JavaScript** with **jQuery**, **HTML5**, and **CSS**
- Implemented application back end with **C#** and **LINQ** using the **MVC** design pattern
- Implemented and maintained multiple **SQL** databases with **stored procedures** in **SQL Server**
- Built and deployed internal tools to automate database uploads and check for data integrity using **PowerShell** with **Selenium**
- Implemented **predictive algorithms** to forecast day-to-day hospital bed usage
- Actively participated in daily **Scrum** and utilized **Git** in an **agile** development team
- Engaged in **code-review** sessions, maintained development backlog, and wrote version logs
- Introduced and improved methodologies that enhanced product cycle release speeds by 30%
- Worked closely with consultants, analysts, and management in a deadline-driven environment

Quality Assurance & IT Support - Co-op

Vancouver, BC

UNIVERSITY OF BRITISH COLUMBIA

Jan. 2015 - Aug. 2015

- Built automated quality assurance tools for massive on-line open course websites using **JavaScript**, **HTML5**, and **CSS**.
- Implemented web application to evaluate second-language pronunciation using **PHP**.
- Provided staff and faculty members with tier 1 support in the area of educational technologies.
- Managed and resolved over 20 support and development tickets per day.

Projects

Study Buddy

LumoHacks

DEVELOPER & DESIGNER

Sept. 2017 - Present

- **iOS** and **Android** application to connect students into study groups, built using **Swift** and **Java**
- Implemented back end using **Firebase**, used authentication, persistent data storage, and device GPS coordinates

UBC Course Scheduler

NWHacks

DEVELOPER & DESIGNER

Mar. 2017

- Web application built using **JavaScript** with **React** and **Node.js** to create optimal university course schedules from data scraped into a **mongoDB** database

Technical

Programming C#, JavaScript, SQL, R, Swift, Java, C/C++, Python, HTML5, CSS, PHP

Technologies Amazon AWS, Microsoft Azure, IIS, Git, Firebase, SQL Server, Visual Studio, XCode

Education

University of British Columbia

Vancouver, BC

B.S. IN COMPUTER SCIENCE AND STATISTICS (WITH CO-OP)

Sept. 2013 - Present