

Frank Liang

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Qualifications

Languages: C • C++ • C# • Java • JavaScript • HTML/CSS • Scheme • SQL

Technical Proficiency: Git • Unix • Operating Systems • Digital Systems • Computer Hardware

Work Experience

NexJ Systems Inc. – Toronto, ON

May 2017 – Aug 2017

Fullstack Developer

- R&D **new security paradigm** for **faster evaluation of data**; the runtime of major data migration processes **decreased by 60%**
- Created a new portlet and **integrated telephony services** into the platform; developed logic for **call list filtering** and call list suggestions **based on probability**
- Resolved bugs in both the frontend (**HTML/CSS/Javascript**) and the backend (**Java/Scheme**) in an agile environment

KPMG LLP – Toronto, ON

Sep 2016 – Dec 2016

Software Developer

- Took initiative to independently create a **Capital Markets data automation and analysis tool** that is now profiting over **10 million dollars per year** for the company
- Created both the frontend (**XML**) and the backend (**C#**) and generated **SQL databases, stored procedures, and scripts** for ease of data import/export

PAVAC Industries – Vancouver, BC

Jan 2016 – Apr 2016

Junior Electrical Engineer

- Assembled and wired a **\$800,000 Electron Beam Welder** in a team with 3 other engineers and completed the project **30% faster** than the previous machine

Projects

Task Manager

- Created an online task manager using **AngularJS, Express.js, Node.js** and a **MongoDB** database

Avalon Web

- Created a web application version of the board game Avalon with **support for multiple players** using **HTML, CSS, and JavaScript**
- Automated gameplay through random role assignment and **created scripts carrying out host procedures**

GPS Navigator

- Developed a **Java** application on **Android Studio** that analyzes readings from internal sensors to calculate walking displacement and generate GPS navigation

Education

University of Waterloo - Honours Computer Engineering

GPA: 3.7/4.0

Relevant Courses: Algorithms and Data Structures • Operating Systems • Embedded System Design • Discrete Mathematics • Digital Computers and Systems • Electronic Circuits

Awards and Achievements

President's Award of Distinction Scholarship (\$2,000) - University of Waterloo

BC Achievement Scholarship (\$1,250) - BC Ministry of Education