

Jerome Alve

Software Engineering 3A

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Technical Skills

- Proficient in **Java**, **C/C++**, **Javascript**, **Swing**, **Python**, and **ARM** assembly language
- Experience building web applications using **JSP**, **Apache Struts**, **XML**, **HTML** and **CSS**
- Comprehensive knowledge of data structures, algorithms, and software design
- Experience with the following development tools: **Netbeans**, **Eclipse**, **MS Visual Studio**, **MS SQL Server**

Experience

- Sep – Dec 2017 **Application Developer**, *VIQ Solutions*, Toronto, ON.
- Set up an RTSP streaming server to develop an application for monitoring IP cameras in courtrooms using **FFMPEG**, Azure Media Services, and Nimble Streamer
 - Developed a web video player for playing HTTP Live Streaming using **HTML**, **Javascript** and **jQuery**
 - Implemented live video recording and playback capabilities using the FFMPEG **Java** library
- Jan – Apr 2017 **Software Developer**, *PureFacts Financial Solutions*, Toronto, ON.
- Designed and developed stored procedures and queries to generate various parameterized reports, tabular reports and matrix reports using **SSRS**
 - Created and maintained both data and parameter driven datasets for financial reports using **SQL** queries
 - Fixed front-end defects of CRM web portal application using **ExtJS**, **HTML** and **CSS**
 - Implemented AODA standard for computer accessibility feature on web portal application using **C#**
- Jun – Aug 2016 **Web App Developer**, *TaxChopper Inc.*, Mississauga, ON.
- Involved in the development of tax return software, certified by the Canada Revenue Agency (CRA)
 - Designed and implemented user interface of web-based application using **HTML**, **CSS**, and **Javascript**
 - Implemented MVC architecture when developing applications using **JSP** and **Apache Struts 2** framework
 - Implemented back-end tax return calculations using **Java**

Projects

- Connect 4
- Developed a mobile “Connect 4” game on **Android** using the Processing IDE in **Java**
 - The objective of the game is to be the first player to connect 4 dots in a row inside a matrix against a computer-generated opponent
- WLP4 Compiler
- Built a compiler for a subset of the C language written in **C++**
 - Developed components for the lexical analysis, semantic analysis and code generation stages of a compiler, including an assembler for the **MIPS** assembly language
- FPGA PLDs
- Created several programs using the Altera Quartus II FPGA and Tiva-C Launchpad Microcontroller
 - Included designs for elevator controllers, a binary calculator, and traffic lights, written in **ARM** and **VHDL** assembly language

Education

- 2015 – 2020 **Candidate for Bachelors of Software Engineering**, *University of Waterloo*, Waterloo, ON.
Relevant Courses: Data Structures and Algorithms, Sequential Programs, Introduction to Combinatorics

Achievements

- ECOO Programming Contest (2015) *Finished in the top 10 teams board-wide*
- French as a Second Language (2015) *Certification for verbal and written communication*

Interests

- Traveling, Cuisine, Photography (instagram.com/jerome.jpg), anti-doping chaperone at the 2015 Pan Am Games
- Member of St. Christopher's Parish Youth Group- organized bake sales, movie nights, and fundraisers to help raise money to build a school in Haiti