Jerome Alve

Software Engineering 3A

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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, SVN** and **GIT** version control
- French as a Second Language - certification for verbal and written communication

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, Javscript** 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

Crypto Portfolio
- Developed an iOS app using **Xcode** and **Swift** for monitoring a cryptocurrency portfolio
- The app uses real-time data (HTML parsing with SwiftSoup) to show the current market price of your cryptocurrencies in dollars

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, User Interfaces, Operating Systems, QA Testing

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