Xavier Sit

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Education

MCGILL UNIVERSITY
SEP 2011 – DEC 2015
B.Eng. Computer Engineering
Minor in Computer Science

KOREA UNIVERSITY
AUG 2014 – DEC 2014
Student Exchange Program

SKILLS

PROFICIENT
- Java
- C#
- C++
- C

INTERMEDIATE
- TDD (JUnit/NUnit)
- .NET
- Hibernate
- Spring
- HTML/CSS
- Angular2/Typescript
- Python

PROJECTS

FITPICS (WORK IN PROGRESS)
Mobile fitness tracking application featuring progress pictures using Ionic 2 framework and Angular2

CUSTOMIZABLE PASSWORD
Developed a secure password system using a PNG file coupled with a character based password

TRAVELLING SALESMAN PROBLEM
Computed an approximate solution of the travelling salesman problem using simulated annealing

32-BIT PROCESSOR
Implemented and tested a 32-bit MIPS pipeline processor in VHDL

FAST FOURIER TRANSFORM
Designed an optimized convolution algorithm for FPGA using Fast Fourier Transform

Experience

NUANCE COMMUNICATIONS | DEC 2016 – PRESENT
Dialog Developer – Automotive Services Team
- Requirements analysis, design, documentation, implementation and validation of speech systems in the Automotive Professional Services team
- Development of voice applications leveraging Nuance's Dragon technology
- Heavily involved in task/defect management, software integration in QNX embedded systems and preparing software deliveries for customers
- Part of customer-facing team, leading meetings with Tier-1 and OEM

AUTODESK | MAY 2016 – AUG 2016
3ds Max Software Development Intern
- Optimized widely used legacy software in C++ and ensured that backward compatibility was completely maintained by thoroughly testing the changes
- Enhanced overall software security by fixing potential vulnerabilities

UBISOFT ENTERTAINMENT | MAY 2015 – AUG 2015
Generalist Programmer Intern – Animation Technology Group
- Software development in the Technology Group, working on the animation graph editor tool using C++ and C#
- Improved software performance by reducing memory usage by 5%
- Implemented a function to rearrange an undirected graph aesthetically

APPVELOPPERS | MAY 2014 – MAY 2015
Android Developer
- Development of an open source Android mobile application for students to access the university portal with a team of undergrad McGill students
- The application received great reviews and has been downloaded more than 1,000 times on the Google Play Store

SILANIS TECHNOLOGY | MAY 2014 – AUG 2014
Software Engineer Intern
- Mapped REST API calls to the company's Java and .NET SDKs using TDD
- Wrote and maintained JUnit and NUnit tests
- Documented the SDKs in the company's DokuWiki and wrote JavaDocs and sample code for customers

MCGILL UNIVERSITY | NOV 2013
CodeJam @ McGill Hackathon
- 2nd place team out of more than 140 participants
- Developed in 48 hours a web application to display in real time a prediction of McGill's power consumption for a 16-hour window

RADIO IP INC | MAY 2012 – AUG 2012
Software Engineer Intern
- Ported the C/C++ source code to Android by configuring a Java Native Interface
- Developed a REST API in Java for the Android mobile client