

# 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