

HIGHLIGHTS OF QUALIFICATIONS

- Currently enrolled in level 4 of a 4-year Software Engineering co-op program
- Proficient in AutoCAD design and Autodesk Inventor with 3+ years experience
- Excellent analytical and problem solving abilities gained through course and lab work as well as previous work experience
- Exceptional teamwork and leadership skills developed while working on numerous group projects
- Strong organization and communication skills through working as a research assistant for two summers

EXPERIENCE

Research Assistant, Department of Computing & Software
McMaster University, Hamilton ON

May – Aug 2017

www.cas.mcmaster.ca/~rassl/pdfs/Fault_Detection_and_Prediction.pdf

- Demonstrated attention to detail and an ability to work independently while researching and developing algorithms to obtain data from a wireless sensor network
- Solved deficiencies in the data centre by analyzing root causes within the algorithm and applying known issues to a failure prediction model
- Collaborated with other Research Assistants and McMaster Engineering faculty members to showcase research at various fairs and online

Special Projects Coordinator, School of Engineering Practice & Technology
McMaster University, Hamilton ON

May – Aug 2016

- Streamlined the course and midterm scheduling process by creating a software in C and C# to detect conflicts with course and room timetables
- Enhanced communication skills while training Program Administrators on the software's functionalities
- Developed strong organizational skills by systemizing the various tasks involved in ensuring projects be completed within the timeline

SKILLS

Programming & Web:

- MATLAB
- Simulink
- Bash
- Ruby
- SQL
- HTML
- C/C++
- CSS
- XML
- Java
- Python
- API

Database:

- Oracle
- MySQL
- MongoDB
- IBM
- DB2
- Hana
- SAP

Software:

- Autodesk Inventor
- Maple
- MapleSim
- Linux/Unix
- Arduino
- MS Office Suite
- Adobe Creative Suite

PROJECTS

MyPager, McMaster Engineering Competition
McMaster University, Hamilton ON

2016

- Led a team of 4 to design and build a speech to language translator that takes immobile patients' speech and sends messages to the nurses' front desk
- Product created through Python programming and Google Home Mini
- Troubleshoot and debugged issues while transforming the product to be multilingual in its ability to deliver messages from immobile English Language Learners to an English-speaking nurses' station

StudyBuddy, Personal Project

2015

<https://github.com/simonxiaoyu/StudyBuddy-McMaster>

- Independently developed a mentorship app for students to recruit subject area peer experts for study sessions during mid-term and final exam seasons
- Ensured iOS and Android compatibilities through use of Java and Swift throughout the development process

EDUCATION

Bachelor of Engineering, Software Engineering
McMaster University, Hamilton ON

Expected Completion, **2019**

- Recipient of the Nizhou Family In-Course Award (\$1000) and H.L. Scholarship for maintaining an average in the top 5% of the program (2016)
- Recipient of the McMaster Honour Award (\$2500) for an admission average of 98%
- Achieved a GPA of 3.8/4.0 and consistently achieved the Dean's Honour Roll (2015-Present)
- Invited member of the Golden Key Society for achieving a GPA in the top 15% of students in the program

Relevant Courses:

Computer Networks

Concurrency System Design

Operating Systems

Database

Data Structures & Algorithms

Embedded System Design

EXTRACURRICULAR ACTIVITIES

Controls Development Lead

2015 – 2016

McMaster EcoCAR 3 Team

- Improved the design of the vehicle by troubleshooting controls issues in MATLAB and Simulink

McMaster Engineering Concrete Toboggan Team

2015

- Participated for the McMaster team in a Cross-Canada competition to design a five-person toboggan with a functioning steering and braking system