

Samuel Noguchi

Srnoguch@edu.uwaterloo.ca | 647 686 7280 | Software Engineering

WORK EXPERIENCE

SOFTWARE DEVELOPER | CANADIAN TIRE INNOVATIONS

January - April 2019

- Created and implemented a floor coverage and path finding algorithm for an autonomous lawn mower prototype using openCV and GDAL python libraries
- Utilized the networkX graph library to store geometrically decomposed environments in graph data structures for optimized path traversal
- Interfaced lawn mower with Real-Time kinematic GPS positioning to survey and traverse environments
- Created an Android application that interfaced with a robotic vending machine via Bluetooth to facilitate customer interaction and admin restocking

ASSOCIATE SOFTWARE ENGINEER | BANK OF MONTREAL

May - August 2018

- Generated live charts to monitor developer productivity using Java and JavaScript's c3 library
- Wrote Unix KornShell scripts to automate file transfers and archival
- Managed the development of software intake processes using JIRA and Confluence
- Attended multiple company workshops on DevOps, agile software development, test automation and project management

PROJECTS

COMBUYN | ANGULAR 7, FIREBASE

May 2019

- Built an e-commerce site using Angular which integrates social networking features allowing users to buy in bulk as a community
- Interfaced with a Firebase cloud database to synchronize data in realtime between connected clients
- Utilized Firebase's Google authentication to securely create and connect user profiles

PASSWORD PROTECTOR | JAVA, SQL

Jan 2018

- Developed a Java program that encrypts and stores passwords on a local mySQL database
- Created a password strength complexity algorithm to grade password security using regular expressions
- Built interactive GUI using Swing to increase ease of use

GUITAR PLAYING ROBOT | C/C++

Nov 2017

- Created a program capable of converting guitar musical notation into encoded, machine readable instructions
- Programmed actuators and robotic arms to play guitar based on the set of generated musical instructions

LINKS

<https://sam-noguchi.web.app>

Github:// [samuelnoguchi](#)

LinkedIn:// [samuel-noguchi](#)

SKILLS

PROGRAMMING

Languages:

Python • C++ • Java • Bash

TypeScript • PHP

Tools and Technologies:

Angular • Linux • JIRA • SAP • Git

Eclipse • Android Studio • Bootstrap

EDUCATION

UNIVERSITY OF WATERLOO

CANDIDATE FOR BACHELOR OF
SOFTWARE ENGINEERING

Expected April 2022 | Waterloo, ON

Cumulative GPA: 3.90/4.00

COURSEWORK

UNDERGRADUATE

Software Engineering Principles

Foundations of Sequential Programs

Algorithms and Data Structures

Microprocessors and Digital Logic

INTERESTS

CURRICULAR

Object-Oriented Programming

Front / Back-End Web Development

Robotics

Database Management

Artificial Intelligence

EXTRACURRICULAR

Guitar and Drums

Performed with band at local venues

Recorded 2 studio albums

Karate

Black belt in Goju-ryu karate

Placed 2nd in the Ontario Martial Arts

Games, March 2015