

Nick Simone

Software Developer

Work Experience

Full Stack Developer

Nōwn, Toronto, Ontario

March 2021 - Present

- Write scalable and efficient code for a patron centric POS system using Angular.js, Java (Dropwizard Hibernate) and Ruby with MySQL and MongoDB
- Review code and mentor junior developers on the team
- Responsible for overseeing and maintaining the company's test environment
- Groom tasks and plan sprints alongside the project manager using JIRA
- Communicate directly with company executives about client requests and any information they might need from the production database
- Planned, designed, and implemented an integration with [Solink](#)

Software Developer - Robotics (Co-op)

Ross Video Ltd, Ottawa, Ontario

May 2019 - August 2019

- Updated a web tool for automatic generation of rails using ASP .NET
- Added functionality to a robotics control system using C# and XAML (WPF)
- Developed robotics firmware using C++

Software Quality Assurance Analyst (Co-op)

Global Affairs Canada, Ottawa, Ontario

May 2018 - August 2018

- Executed test cases in order to ensure systems were bug-free
- Filed and submitted bug reports containing an analysis of each bug found
- Wrote test cases based on system requirements

Teaching Assistant

Carleton University, Ottawa, Ontario

January 2018 - April 2020

- Worked in courses Introduction to Computer Science II, Systems Programming, Introduction to Software Engineering, and Applied Cryptography
- Led tutorials, held office hours, and graded assignments and exams to increase students' knowledge of Java, C++, and C programming in a Linux environment

Education

Computer Science B.Sc. Honours

Carleton University, Ottawa, Ontario

September 2016 - April 2020

- Graduated with a GPA of 3.8
- Made the Dean's List each year and maintained an academic scholarship

Contact Details

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[LinkedIn](#)

Links

[Website](#)

[GitHub](#)

Programming Languages

Python	JavaScript
Java	Visual Basic
C	Haskell
C++	Prolog
C#	Bash
Go (Golang)	.NET
Ruby	Swift

Other Technologies

Git	Node.js
SVN	Angular.js
Linux	JSX
LaTeX	HTML
WPF	CSS
XML	SQL
XAML	MongoDB
Qt	Docker
JavaFX	Kubernetes
Dropwizard	

Security Skills

Familiar with modern cryptosystems (AES, RSA, ECC) and the SSL and TLS protocols.

Applied Projects

nicksimone.com

[View Code](#)

My personal website. Hosted using AWS and written using HTML, CSS, and JavaScript.

Key Transposer

[View Code](#)

Wrote an iOS app using Swift that can be used to change the key of musical chord progressions.

Honours Project - Score Editor's Graphics Framework

Added new features to a web application using HTML, JavaScript, and XML that uses SVG graphics to render sheet music.

Vigenère Decoder

[View Code](#)

Created a cryptography program using Python that uses frequency analysis to find the key used to encrypt the plaintext when the key length is unknown.

Carleton University Animal Care System (cuACS)

[View Code](#)

Planned and developed a computer program in C++ (with the Qt framework) using a matching algorithm to produce an optimal set of matches based on animal shelter client preferences and animal attributes.