SIMON ZENG

Software Developer

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EXPERIENCE

Performance Engineering/Test Automation Co-op
CENX

📅 July 2017 – September 2017 📍 Ottawa, Ontario

Developed low-level network interface technologies in order to maximize artificial demand/stress on company products for the purpose of augmenting performance, assuring quality, and detecting security issues.

Full Stack Web Development Intern
inBay Technologies

📅 July 2016 – August 2016 📍 Kanata, Ontario

Created internal-use development tools, performing both front-end and back-end development using web technologies such as Ruby on Rails and node.js

Volunteer STEM Camp Counsellor
Virtual Ventures

📅 July 2015 – August 2015 📍 Ottawa, Ontario

Taught lessons and lead activities focusing on programming, robotics, and physics for children aged 9-12

PROJECTS

Neural Network Based Automatic Midi Music Generator
github.com/s-zeng/rag-shenanigann

A combination of curated tools and original scripts that collectively automate the process of generating original music tracks, based on the style of music files provided as training data.

Discord API Music Player Bot
github.com/s-zeng/Zengyatta

A bot written for the Discord voice and messaging client that can play audio in voice channels from sources like YouTube, Soundcloud, Bandcamp, etc.
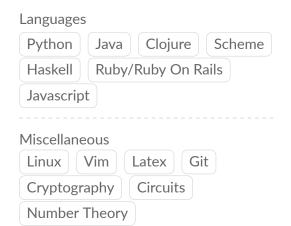
EDUCATION

Honour's Computer Science, Co-op
University of Waterloo

📅 September 2018 – May 2023 (expected)

Relevant Coursework:
- Elementary Algorithm Design and Data Abstraction (Advanced Level)
- Digital Circuits and Systems

SKILLS & INTERESTS

Languages

Python Java Clojure Scheme
Haskell Ruby/Ruby On Rails
Javascript

Miscellaneous

Linux Vim Latex Git
Cryptography Circuits
Number Theory

AWARDS & CERTIFICATIONS

🏆 **Contest Finishes**
Top 1% in Waterloo's Euclid math contest, group 2 honour roll in Canadian Computing Competition, provincial finalist in ECOO programming contest

❤ **Qualified Life Saving Instructor and Water Safety Instructor**
Certified by the Red Cross and the Lifesaving Society. Includes CPR-C and Standard First Aid