

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

Assisted in lessons and 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

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

repl.vim

github.com/ujihisa/repl.vim

Vim plugin that provides bindings for summoning an interactive environment with the code that is being written. My contributions include additional code to make the plugin compatible with Racket/Scheme source files and interactive environments

EDUCATION

Honours Computer Science, Co-op

University of Waterloo

September 2018 – May 2023 (expected)

AWARDS AND CERTIFICATIONS



Top 1.2% in Euclid

Scored 82/100 on Waterloo's Euclid mathematics contest



ECOO Contest Finalist

Placed 15th out of hundreds of Ontario teams in the final round of ECOO's team computer science competition



Qualified life saver and water safety instructor

Certified by the Red Cross and the Lifesaving Society. Includes CPR-C and Standard First Aid

LANGUAGES

Python



Java



Ruby



Javascript



Haskell



Clojure



Racket

