SIMON ZENG

Software Developer

@ simon.zeng@uwaterloo.ca

613-983-9079

% s-zeng.github.io

in linkedin.com/in/s-zeng1

github.com/s-zeng

EXPERIENCE

Performance Engineering Co-op

Ericsson

May 2019 - August 2019

♥ Kanata, Ontario

- Implemented a robust, pure, and functional metrics system using **Clojure** and **Python**
- Developed a Domain Specific Language interpreter using Lisp for specialized tooling

Test Automation Intern CENX

Ottawa, Ontario

- Automated load testing on company infrastructure using **Python**
- Implemented IETF RFC socket protocols in **Bash** and **Python** to debug non standards-compliant network stacks
- Found and reported multiple performance bottlenecks and moderate-severe security issues

Full Stack Web Development Intern inBay Technologies

₩ July 2016 - August 2016

Kanata, Ontario

- Fetched and formatted statistics and metrics from network APIs using **Ruby (on Rails)** and **Sinatra**
- Constructed front-end web pages using HTML, CSS, and Coffeescript to present statistics to clients

PROJECTS

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

- Scraped and preprocessed web MIDI files into neural network consumable text format with a suite of **Python** scripts
- Automated process of MIDI manipulation and neural network training using **Docker**

Polynomial Interpolator github.com/s-zeng/interpoly

- Developed a small **Haskell** based CLI utility that generates minimum degree polynomials to interpolate over finite lists of numbers
- Available on the Arch Linux User Repositories as aur/interpoly

SUMMARY

- Professional experience in Python, Clojure, and web development
- Robust background in functional programming (i.e. Scheme, Haskell, Clojure)
- Strong interest in security, networks, and low level engineering

SKILLS

Languages Python Java Clojure Lisp Bash Script Haskell Ruby **Javascript** Coffeescript **HTML CSS** Tools and Technologies Vim Linux **Emacs** Latex Ruby on Rails Sinatra Docker

OPEN SOURCE CONTRIBUTIONS

[4910aa7] Add scheme support ujihisa/repl.vim

Vim plugin that integrates REPL functionality

[965f055] Implement exclusion list for use with rclone check

Spazzlo/folderclone

Python script that is able to quickly clone large shared folders (up to 900TB) on Google Drive

EDUCATION

Honours Computer Science, Co-op University of Waterloo

September 2018 - May 2023 (expected)

Major Average: 91%