Nigel Redding

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https://www.github.com/nigelvr

Objective

To work on meaningful and challenging software projects and further my software engineering knowledge. I am intereted in becoming a key developer on important software projects.

Education

University of Ottawa, Ottawa, Ontario

Master of Science - Mathematics *Fall 2015 - Summer 2017*
Thesis *The Convex Hull of the Highest Weight Orbit and the Carathéodory Orbitope*

Carleton University, Ottawa

BSc - Mathematics and Computer Science *Fall 2010 - January 2015*
11.92/12 GPA

Honours Project *Torsion Points on Elliptic Curves*

Technical Skills

Languages and technical skills:

- Strong Python skills
- Strong C skills
- Good debugging skills
- Good C++ skills
- OOP programming
- Version control (git)
- SQL

Devops and automation:

- Jenkins
- Apache Airflow
- Make and CMake

Other skills:

- Functional programming (Scheme)
- Flex and Bison
- The LLVM framework
- Embedded development: some experience with NXP IMX and Raspberry Pi pico
- Some experience with X86 and ARM assembly language
- JavaScript

Experience

SociVolta **November 2019 – April 2023**

Senior Software Developer *Montreal, QC*

- Responsible for important automation ground work: automated jobs for pulling market data and executing transactions
- Responsible for development and maintainance of key trading tools, including an interpreter for a domain specific language which we used to express our trading strategies
- Responsible for maintainance and development of automation tasks
- Mentoring junior members

ZeligSoft **January 2018 – November 2019**

Software Developer *Gatineau, QC*

- Development and maintainance of JavaScript bindings for OpenSplice DDS
- Maintenance of Python bindings for OpenSplice DDS
- Maintenance of OpenSplice build system (CMake, Jenkins)
- Maintenance of code generation tool for OpenSplice DDS