# Nigel Redding

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## Professional Summary

I am a highly motivated and skilled software developer with five years of professional experience. I have a wide range of technical experience, including working with trading systems and embedded development. I would like to grow in to a technical leadership role.

## Education

- **Carleton University** — Ottawa, On
  *BSc Mathematics; GPA: 11.92/12* — *Fall 2010 - January 2015*

- **University of Ottawa** — Ottawa, On
  *MSc Mathematics* — *Fall 2015 - Summer 2017*

## Experience

- **SociVolta** — Montreal, Qc
  *Senior Software Developer* — *November 2019 – April 2023*
  - Development of a key trading tool which provided the research team with trading-signal data. This tool was also used in production for trading. We used Python and Pandas for manipulating large amounts of market data.
  - Worked across various teams (cloud operations, research, data) to address operational issues
  - Worked with the CEO, COO and business analysts to understand business requirements
  - Development of ETL jobs for market data and automated jobs for executing market transactions: Python, Apache Airflow
  - Development of Jenkins CI/CD jobs for building our containers
  - Helped the company get set up on the AWS platform: EC2, Lambda, Jenkins, Docker, Apache Airflow

- **ZeligSoft** — Gatineau, Qc
  *Software Developer* — *January 2018 – November 2019*
  - Development of code-generation tool which translated and interface description language (IDL) into Python stubs: C, Python, OMG IDL
  - Development and maintenance of OpenSplice DDS bindings for Python and JavaScript: Python, Cython, Node.js
  - Maintenance of Jenkins jobs for building packages for OpenSplice DDS components: Jenkins, CMake, Make, Bash
  - Communicating with customers to address issues in the OpenSplice DDS software package

## Technical Skills

- Python
- C/C++
- Containers: Docker, Kubernetes
- Cloud: AWS EC2, Lambda
- Embedded development: cross-compilation, raspberry pi, nxp imx 6, assembly language
- Build systems: Jenkins, CMake, Make
- Software Engineering
- Test driven development
- Foundations in computer science