HUGO KLEPSCH

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EDUCATION

University of Guelph

September 2015 - April 2020

B.Comp. Software Engineering (Co-op), Honours

- · Minor in Marketing
- · Dr. Mary McLeish Scholarship recipient (Highest GPA in Software engineering major)
- · 2018 Braithwaite Business Scholarship
- · Deans list

EXPERIENCE

Arctic Wolf Networks

May 2018 - August 2018, January 2019 - August 2019

Member of technical staff

Waterloo. ON

- · Used Esper, Apache Flink and Hadoop as part of a complex event processing pipeline to find patterns in unbounded series of events.
- · Part of team that pioneered construction of time-series anomaly detection system.
- · Wrote independent auto-scaling services as part of a data processing pipeline that processed 8 billion messages per day.
- · Added metrics and stability alerts to services.

Carnegie Technologies

May 2017 - December 2017

Waterloo, ON

Native back-end developer

- · Developed native C++ GPS and ephemeris libraries for use in embedded devices.
- · Participated in the design of, and implemented REST style microservices using Node is and RabbitMQ.
- · Designed and implemented C++ and Node.js RabbitMQ messaging library with support for a variety of usage patterns (Consumer, Requester).
- Designed and implemented C++ JSON manipulation and validation library with support for proprietary extensions to JSON schema specification.

OPEN SOURCE CONTRIBUTIONS

avast-tl/retdec

December 2017

· Proposed and added Docker support

netmail-open/wjelement

November 2017

- · Found and fixed bug causing library not · Added typescript type definitions for to compile with glibc
- · Added date-time support to JSON schema verification system

DefinitelyTyped/DefinitelyTyped

July 2017

various Node.js libraries

TECHNICAL STRENGTHS

Computer Languages Prolog, Haskell, AWK, Erlang, Scheme, ML

Protocols & APIs XML, JSON, SOAP, REST

Databases MySQL, PostgreSQL, Microsoft SQL

Tools SVN, Vim, Emacs