# 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

*Native back-end developer*                                                                   *Waterloo, ON*

- Developed native C++ GPS and ephemeris libraries for use in embedded devices.
- Participated in the design of, and implemented REST style microservices using Node.js 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.

## TECHNICAL STRENGTHS

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|---|---|
| **Computer Languages** | Prolog, Haskell, AWK, Erlang, Scheme, ML |
| **Protocols & APIs** | XML, JSON, SOAP, REST |
| **Databases** | MySQL, PostgreSQL, Microsoft SQL |
| **Tools** | SVN, Vim, Emacs |