Trevor van Leeuwen

(613) 600-7104   tvanleeuwen@edu.uwaterloo.ca

Technical Skills

Proficient In:	C/C++, Java, SQL, Ruby on Rails
Familiar With:	Python, Perl, Verilog, ARM Assembly, Javascript, MATLAB
Tools:	Git, GDB, WinDbg, Jira

Work Experience

Aug-Dec 2017

File System Developer at MICROSOFT
- Desgined & implemented end-to-end dehydrated & deferred cloud file copy protocol in NTFS, saving significant bandwitdth and disk space when a copy is issued on cloud-stored files (i.e. on OneDrive)
- Filed patent for the cloud copying technique
- Implemented various performance improvements and bugfixes for NTFS

Aug-Dec 2016

Database Developer at MAGNA INTERNATIONAL
- Overhauled Defect Detection & Classification system backend to improve mean query time 5*
- Refactored mould operator interfaces to eliminate 95% of dropped database connections
- Optimised database server job scheduling to dramatically improve average performance

Jan-Apr 2016

Full Stack Developer at SHOPIFY
- Created mobile phone payment method for customers in developing countries
- Improved resiliency of accounting software integrations (Xero & Intuit), reducing unhandled exceptions by 35%

May-Aug 2015

Rapid Prototype Developer at TD CANADA TRUST
- Rapidly created web & Android prototypes involving new technologies for banking (e.g. internet of things), bringing them from ideation to minimum viable product in 4 week sprints

Sept-Dec 2014

Software/Tool Developer at NANOMETRICS
- Developed software & firmware for seismometers
- Verified & debugged prototype PCBs in the lab

Jan-Apr 2014

Backend Web Developer at RECOGNIA
- Built backend & API for website for technical analysis of financial instruments

Projects

- **Chorus - Inexpensive High Quality Recording (Capstone Project)**
  - Created a system to allow amateur musicians to record better quality vocal/instrumental tracks using easily acessible microphones (i.e. cell phones, laptops) by applying digital signal processing & machine learning techniques.
- **UW Autonomous Sailboat Team**
  - Created automatic sail trim control system for an RC sailboat in hardware, and implemented autonomous path planning software, with the goal of racing with zero human input.

Education

University of Waterloo, Waterloo, Canada

- Bachelor of Applied Science, COMPUTER ENGINEERING, 2018. With Distinction

Interests and Activities

- Demonstrated leadership through directorships in Orientation Week, Engineering Society & Grad. Committee
- Competitive collegiate e-sports: Team co-ordinator for UW Heroes of the Storm; Team captain for Hearthstone
- Competitive sailor, avid cross-country skier, amateur saxophone player