TREVOR VAN LEEUWEN

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

File System Developer at Microsoft

AUG-DEC 2017 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

Database Developer at Magna International

AUG-DEC 2016 Overhauled Defect Detection & Classification system backend to improve mean query time 5*

Optimised database server job scheduling to eliminate performance bottlenecks

Full Stack Developer at Shopify

JAN-APR 2016 | Created mobile phone payment method for customers in developing countries

Improved resiliency of accounting software integrations (Xero & Intuit), reducing unhandled exceptions by 35%

Rapid Prototype Developer at TD CANADA TRUST

MAY-AUG 2015 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

Software/Tool Developer at NANOMETRICS

SEPT-DEC 2014 Developed software & firmware for seismometers

Verified & debugged prototype PCBs in the lab

Backend Web Developer at RECOGNIA

JAN-APR 2014 | 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