Colin Howes

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FDUCATION

UNIVERSITY OF WATERLOO

MMATH COMPUTER SCIENCE -

CO-OP

Dec 2018 (expected) | Waterloo, ON GPA: 3.98 / 93%

UNIVERSITY OF GUELPH

MSc Neuroscience and Applied Cognitive Science Dec 2016 | Guelph, ON GPA: 3.98 / 94%

COURSEWORK

Empirical Performance Evaluation - 91% Advanced Distributed Systems - 96% Artificial Intelligence - 89% Computer Networks - 96% Computer Security and Privacy - 96% Research Design and Statistics - 96% Operating Systems - 91% Algorithms - 89% Data Structures 94%

IP: In Progress

SKILLS

PROGRAMMING LANGUAGES

C • Java • C++ • Python • R

TECHNOLOGIES AND TOOLS

Git • Linux • Android gRPC • Shell Scripting • LEX

WEB TECHNOLOGIES

HTML • CSS • JavaScript AngularJS • MySQL/SQLite

EXPERIENCE

BLACKBERRY/QNX

CORE OS SOFTWARE DEVELOPMENT STUDENT

Jan 2018 - Present | Kanata, ON

• Current intern on the kernel development team

PERCEPTION TEAM CORE MEMBER

WATONOMOUS - SAE AUTODRIVE CHALLENGE TEAM

Sep 2017 - Present | Waterloo, ON

• Developed and trained an image classifier based on a convolutional neural network capable of classifying traffic signs

GRADUATE RESEARCH ASSISTANT

University of Guelph - Department of Computer Science

Dec 2015 - Dec 2016 | Guelph, ON

• Developed a survey platform in collaboration with a team of public health researchers aimed at facilitating data collection from remote communities

GRADUATE RESEARCH ASSISTANT

University of Guelph - Department of Psychology

Sep 2014 - Dec 2016 | Guelph, ON

• Led a research project investigating effects of exposure to testosterone on learning and social behaviour

SEMINAR INSTRUCTOR

University of Guelph

Sep 2014 - Dec 2016 | Guelph, ON

• Led a seminar on research methods and statistics for high-achieving upper year undergraduate students interested in graduate studies

PROJECTS

ANALYSIS OF TCP BBR FOR DATA CENTRES GITHUB

 Assessed the performance of TCP BBR as an alternative congestion control algorithm for data centres supporting latency critical distributed applications

WATFS GITHUB

• Fault tolerant remote file system built on top of FUSE, using gRPC as a communication mechanism

IMPROVED INITIATIVE GITHUB | GOOGLE PLAY

- Developed an Android app to facilitate gameplay management for tabletop roleplaying games like Dungeons and Dragons
- Over 1000 users and a 4.2 star rating on the Google Play Store