

Ben Willetts

Mobile: +1 (514)-638-0904 **E-mail:** ben.d.willetts@gmail.com **Nationality:** Canadian **D.O.B:** 04/09/96
LinkedIn: [linkedin.com/in/benwilletts1](https://www.linkedin.com/in/benwilletts1) **Github:** github.com/bendwilletts **Availability:** Summer Internship 2018

Education

McGill University **September 2014 - Present**
Bachelor of Software Engineering
Undergraduate degree expected in May 2019
Montréal, Canada

Canadian International School of Hong Kong **August 2001 - May 2014**
International Baccalaureate Diploma - OSSD Diploma
Hong Kong SAR

Work Experience

McGill Clinical & Health Informatics | *Software Developer Intern* | mchi.mcgill.ca **May 2018 - Present**
Montréal, Canada

- Maintained software development changes for a health informatics web application
- Developed interactive data-driven features with a heavy use of JavaScript and a variety of web frameworks
- Involved in a Scrum management system for agile development; making efficient use of JIRA software
- Discussed with leading researchers in Epidemiology and Biostatistics to fine-tune software requirements

Gammon Construction Limited | *Information Management Services Intern* **May 2017 - August 2017**
Hong Kong SAR

- Designed an enterprise application to support intercompany workflow and transactions
- Created modern dynamic user interfaces with Angular JS, back-end API with Spring and Hibernate
- Communicated application requirements with E&M engineering experts to sustain feature driven programming
- Experienced an enterprise development format, managing changes through Apache Subversion

TOM Condos | *Data Management Administrator* | *Summer Intern* / *Part-time* **May 2016 - April 2017**
Montréal, Canada

- Managed and maintained client data for a luxury condo development
- Updated and organized back-end of the company website
- Created Excel templates to better manage client data and use for showroom presentations
- Proposed and implemented online advertising solutions for real estate developments

Other Relevant Experience

UCSF-McGill-PeriGen Research Project | *Project Member* | *Advisor: Prof. Robert E. Kearney* **January 2018 - Present**
Software prediction algorithm to determine the likelihood of HIE in fetuses Montréal, Canada

- Developed a database management system linking clinical and fetal monitoring data
- Analyzed fetal monitoring (EFM) signals to identify features that are predictive of HIE
- Combined clinical and EFM data using machine learning methods to develop a perinatal HIE predictor
- Completed a grant proposal with predictive results to submit to National Institutes of Health (NIH)
- Worked together with industry experts under the supervision of McGill's Biomedical Engineering department

CodeJam: Data Dive | *Hackathon Winner of Overall First Place Prize* | *Devpost: bit.ly/walksafenyc* **November 2017**
Web mapping application that provides safest route to destination Montréal, Canada

- Preprocessed NYC vehicle accident data into an incident frequency heat map using k-means clustering
- Built server-side route suggestion engine via unsupervised machine learning and Google Maps API
- Implemented various software features to enhance functionality, usability, and user experience
- Presented our software demo to Amazon software engineers, competing with over eighty student teams

Languages & Technical Skills

English: Fluent written and spoken | **Mandarin:** Adequate written and spoken

Programming Languages

- Java, Python, C
- HTML/CSS, JavaScript
- OCaml, PHP, SQL
- UNIX Shell Scripting

Software Tools

- AngularJS, Hibernate, Flask
- React, Node.js, Spark, cv2
- Scikit-learn, PyTorch, Keras
- Git, SVN, JIRA

Relevant Knowledge

- Full Stack Web Development
- Agile Methodologies
- Computer Vision
- Applied Machine Learning

Dedicated Hobbies

- Basketball at high school varsity level, Club Volleyball
- Long distance running/hiking charity events
- Music production, Classical piano