Ben Willetts

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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**
- Maintained software development changes for a health informatics web application   *Montréal, Canada*
- 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
- Collaborated with leading researchers in Epidemiology and Biostatistics to fine-tune software requirements

Gammon Construction Limited | *Information Management Services Intern*   **May 2017 - August 2017**
- Designed an enterprise application to support intercompany workflow and transactions   *Hong Kong SAR*
- 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**
- Managed and maintained client data for a luxury condo development   *Montréal, Canada*
- 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	Software Tools	Relevant Knowledge
- Java, Python, C	- AngularJS, React, Vue.js	- Full Stack Web Development
- HTML/CSS, JavaScript	- Hibernate, Flask, Node.js	- Agile Methodologies
- OCaml, PHP, SQL	- sklearn, TensorFlow, Keras	- Computer Vision
- UNIX Shell Scripting	- PyTorch, Spark, cv2, Git, JIRA	- Applied Machine Learning

Dedicated Hobbies

- Varsity Basketball and Volleyball, Club Golfer
- Long distance running/hiking charity events
- Music production, Classical piano