

Yifan Bai

<https://andybaimqc.github.io/>

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EDUCATION

- **Université de Montréal, MILA(Quebec AI Institute)** Montreal, QC, Canada
Master's in Computer Science, Machine Learning/AI/Data Science September 2019 – Present
- **Concordia University** Montreal, QC, Canada
Full-stack Development Bootcamp Diploma September 2019 – Present
- **McGill University** Montreal, QC, Canada
Bachelor's in Mechanical Engineering, Internship Program, Minor Computer Science September 2013 – May 2019

EXPERIENCE

- **McGill University** Montreal, QC, Canada
Teaching Assistant, COMP 206 - Intro to Software Engineering January - April 2019
 - Graded courseworks and exam for over 30 students and provided constructive feedback.
 - Tutored students during weekly office hours and pre-exam review sessions.
- **Pratt & Whitney Canada** Montreal, QC, Canada
PLM Application Full-stack Developer Intern September – December 2018
 - Developed a visual flow web app for project progress and Product Life Management (PLM) process tracking.
 - Programmed UI in Vue and back-end in Play to deploy Java RESTful API to manipulate DS Enovia database.
 - Interfaced with various teams including project engineers, product owner, stakeholders and lead developers.
 - Improved workflow using Agile framework and methods such as Kanban and Scrum
- **Pratt & Whitney Canada** Montreal, QC, Canada
Engine Diagnostic Software Development Intern May – August 2018
 - Developed and validated engineering requirement documents for in-house software packages.
 - Enhanced testing and debugging processes by developing Batch command-line tools.
 - Improved project management Excel tools by fixing errors, unifying styling and formula logics.
 - Drafted technical documentations for in-house software packages and guidelines for software maintenance.
- **McGill University** Montreal, QC, Canada
Lead Full-Stack Web Developer, McGill MakersHub January – April 2018
 - Programmed UI using HTML5/CSS and JavaScript APIs for slideshows, Google Maps.
 - Drafted and integrated media contents into the webpage.
 - Presented in internal reviews with faculty members.
- **TRU Simulation + Training** Montreal, QC, Canada
Simulator Qualification Intern January - April 2018
 - Carried out FSTD qualification test runs on test stations and full simulators.
 - Wrote and reviewed Qualification Test Guide (QTG) documentations release 2.0 for A320.
 - Recompiled and updated QTG project tracking documents to keep the information up-to-date.
- **CAE Inc.,** Ottawa, ON, Canada
System Software Specialist Intern January – August 2017
 - Provided technical support to users via online ticketing system, processed daily licensing/documentation requests.
 - Improved functionalities for users by customized SQL scripts, fleet configurations in XML, and software bug fixes.
 - Moderated ticketing and user database on WordPress; cleared over 90 backlog in the first 3 weeks of work.
 - Prepared test cases for software new release demo with visiting customers.

- **Polytechnique de Montréal** Montreal, QC, Canada
Research Intern *May – August 2016*
 - Carried out wind tunnel experiments on prototype airfoils, data gathered contributed to doctoral thesis.
 - Performed modal and stress FEA simulation using ANSYS on testing equipment for validation.
 - Performed weekly lab 3D printer servicing, designed and printed test rig components using CATIA V5.
- **McGill University** Montreal, QC, Canada
Teaching Assistant, MATH 314 - Advanced Calculus *January – April 2016*
 - Graded over 30 students for 5 assignments; led exam invigilation team of 3.
 - Held bi-weekly meetings with professor, providing feedback based on students' performance and concerns.

PROJECTS

- **Kaggle Competition - Reddit Text Classification**
Machine Learning - Python, Top 10% of Class
- **Class Tournament - Pentago Swap**
AI Game Playing Agent - Java, 15/289
- **Pictionary**
Multi-player Web Game - AWS, PHP
- **ADML Website**
Web Design - Bootstrap, HTML5/CSS, Javascript

PROGRAMMING & SKILLS

- **Scripting:** Bash, JavaScript(React, Vue, Express, Node, MomentJS, VisJS, D3JS), Python(Numpy, Pandas, Scikit-Learn, Matplotlib, Seaborn), Matlab
- **Programming:** C/C++, Java(OOP, Design Patterns, Play Framework), HTML5/CSS, SQL
- **Office:** LaTeX, MS PowerPoint/Word/Excel/Visio, WordPress

LANGUAGES

- **English:** Proficient
- **Mandarin:** Native
- **French:** Intermediate