

XINRAN XIONG

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EDUCATION

McGill University, September 2018-2022

- Bachelor of Science, Honours in Computer Science
- Completed courses: algorithms and data structure, software systems, functional programming languages, computer systems, operating systems, software design, web development
- CUM GPA:4.0

TECHNICAL SKILLS

- **Programming/Language:** Java, Python, C/C++, OCaml, MIPS, SQL, R, Scripts(Bash), Git, LaTeX
- **web front end:** HTML, CSS, Javascript
- **server scripting language:** PHP
- **DataBase:** MySQL
- **IDE Tools:** Eclipse, Xcode, Visual Studio
- **Deep Learning:** TensorFlow, Numpy, Pandas, Matplotlib, Jupyter
- **Operating Systems:** MacOS(linux commands)
- **Office Tools:** MS Word, Excel, PowerPoint, Outlook

WORKING EXPERIENCE

Research Assistant

Under Prof. Vybihal, Joseph P, McGill University

Montreal, Canada

2020.05-2020.08

Research Project | Java | IO | Maven | Google Guice Framework | Database Design | TestNG

- Research on project - Designed and integrated a database for the Prometheus robotic artificial intelligence system.
- Participated in Remote group work on the Prometheus AI robot which can help in search and rescue operations.
- Proposed methods in processing the data generated from the robot brain.
- Designed a database for the AI system to backup the trained model.

Researcher

Machine Learning Lab, The Southeast University.

Nanjing, China

2019.05-2019.08

Research Project | python | Deep Learning | TensorFlow

- Research on project - Designed and implemented an AI system for animal classification.
- Discovered a suitable strategy for image data preprocessing. Created and trained a CNN in Tensorflow to measure the difference between animals.
- Uploaded 10,000 photos as input to the trained model. Validation set accuracy 90%+

PROJECTS

Full Stack Development: Online Shopping Application

2020.06-2020.08

Java(J2EE) | Tomcat | Servlet | MySQL database | JDBC | JavaScript,HTML,CSS | XML

- Developed a full stack web application "E-center" which has a goal to take and sell orders online for smooth user experience using Java/J2EE technologies.
- Wrote JavaScript(JQuery), HTML, CSS to build the user-friendly frontend.
- Utilized MySQL database to store the user process and commodity information in the backend.
- Created and executed test cases in JUnit for unit testing of application.

Multi User Web dungeon Crawler Game

2019.03-2019.04

C | CGI | HTML

- Worked with a team to design a web game called dungeon crawler-like game which aims to transfer the client's score from one game page to another.
- Developed the game page using HTML.
- Implemented the C program in the backend that can evaluate the query string sent by client.

AWARDS

McGill University In-Course Scholarship(200 CAD)

regular academic year 2018-2019

McGill University In-Course Scholarship(700 CAD)

regular academic year 2019-2020

OTHER SKILLS AND INTERESTS

- **Languages:**English(fluent),Mandarin(native)
- **Certifications:**Course Certification for Responsive Website: Code with HTML, CSS, and JavaScript(Coursera);Course Certification for Database Design with MySQL(Udemy)