

# James Ting

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## Education

### Bachelor of Science, Computer Science Major | McGill University

Sept 2018 – Present | Montreal, Canada

**Expected Graduation:** April 2022

**GPA:** 3.89/4.00

**Awards:** Quebec Ministry of Higher Education Excellence Bursary for Computer Science (2020 – 2021)

**Coursework:** Software Design, Discrete Mathematics, Data Structures & Algorithms, Theory of Computation, Programming Languages and Paradigms, Machine Learning

**Extracurriculars:** Co-President @ Hong Kong Student Network (Mar 2020 – Mar 2021)

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## Experience

### Undergraduate Research Project | Data-Intensive Storage and Computer Systems Lab @ McGill University

Jan 2021 – Apr 2021 | Montreal, Canada | Volunteer Research Project

- Constructed **collaborative filtering** and **Monte Carlo Tree Search** systems as **real-time recommendation systems** for champions in League of Legends.
- Demonstrated the viability and scalability of Monte Carlo Tree Search for a large-scale recommendation system, with 99<sup>th</sup> percentile latency of **0.282 seconds** for Monte Carlo Tree Search.
- Scraped and filtered a dataset of **1,357,359 matches** using NodeJS, and developed several reward functions for the MCTS system

### Software Developer Intern | Nuance Communications

Sept 2020 – Dec 2020 | Montreal, Canada

- Constructed a comprehensive testing suite for a gateway microservice using the **Jest** framework, resulting in **code coverage of up to 91%** across several modules.
  - Developed a **NodeJS runtime configuration watcher library** to allow modifications to the configuration of microservices without requiring a redeployment of Kubernetes pods, **increasing service up-time and simplifying the codebase**.
  - Designed a NodeJS POC to demonstrate the feasibility of using **OpenTelemetry** and **Jaeger** for distributed tracing in the team's microservices.
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## Personal Projects

### Superhero Team Builder

- Constructed a superhero team builder **multi-page web application** using **ReactJS** where users can create a team of superheroes based around their statistics, and track overall team statistics
- Used the Superhero **RESTful API** for information about superheroes from the Marvel and DC universes and then displays to the user

### Pathfinding Algorithm Visualizer

- Created a pathfinding algorithm visualizer **web app** using **ReactJS** and **NodeJS** and deployed on **GitHub Pages**
  - Built as an educational tool to demonstrate algorithms such as **Dijkstra's Algorithm**, **A\* search**, **Breadth-First Search** and **Depth-First Search**, with over 100 users at peak.
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## Skills and Technologies

- Programming Languages: **Java**, **Python**, **C**, **JavaScript**, **OCaml**
- Frameworks/Technologies: **Junit5**, **PyTorch**, **ReactJS**, **NodeJS**, **Jest**, **Git**, **Docker**, **Kubernetes**, **Helm**, **Jira**
- Languages: **English** (Native Fluency), **French** (Native Fluency), **Cantonese** (Advanced Fluency)
- Certifications: Glider Pilot's License, Private Pilot's License with Night Rating and Multi Engine Rating