

Victor He

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Website: <https://victorhe404.github.io/>

EDUCATION

McGill University Montreal, Canada

Expected Graduation: June. 2025

Bachelor of Science in Computer Science

GPA: 3.5/4.0

Coursework: Data Structures, Advanced Algorithms, Object Oriented Programming, Artificial Intelligence, Computer Architecture, Machine Learning, Database Systems, Operating System.

EXPERIENCE

Software Engineering Intern, China Sensors Data Co., LTD.

May – July.2023

- **Implemented a real-time data warehouse** based on an existing big data processing platform, which **supports streaming data query**. Its Real-time processing enables **timely adjustment of service and marketing strategies**, which helps to increase user satisfaction and bring higher profits.
- Used **MySQL database** to store data,

Software Engineering Intern, Ant Shengxin (Shanghai) Information Technology Co., Ltd.

July.2023–Sept.2023

- Gained insights into the software architecture of banking systems using **Java**. Engaged in the **full software development lifecycle**, emphasizing testing and deployment.
- Developed **user data management software**, including **API creation** and the implementation of **asynchronous commands**.

Software Engineering Hands-on Training Program, Kreativstorm

May – June.2024

- Participated in an intensive training program focusing on various **software engineering strategies**.
- Engaged in practical application by developing **projects** inspired by real-world software engineering concepts.

PROJECT

Colosseum Survival | Python | GitHub: [VictorHe404/Colosseum-Survival \(github.com\)](https://github.com/VictorHe404/Colosseum-Survival)

Nov.2023

- Designed and implemented an advanced **AI agent** for the zero-sum game Colosseum Survival in a team of 2 (**Python**).
- Employed **Iterative Mini-max algorithm** enhanced with **alpha-beta pruning** and **heuristic evaluation** to optimize decision-making.

Operating System Simulation | C, Linux | GitHub: [VictorHe404/Operating-System \(github.com\)](https://github.com/VictorHe404/Operating-System)

Jan - April.2024

- Collaboratively designed and implemented an **operating system** as part of a team of two.
- Developed core components including **Shell Memory**, **Paging** (Demand Paging and Page Replacement Policy), **File System**, **Fragmentation**, and **Data Recovery & Forensics**.

Database System Design | Java, MySQL, Linux | GitHub: [VictorHe404/Database-Design \(github.com\)](https://github.com/VictorHe404/Database-Design)

Jan - Mar.2024

- Designed and implemented a ticket purchasing application using **DB2 database**, **Java**, and **MySQL**.
- Integrated features such as **ticket purchase**, **user account login**, **sign-up and management**, **search**, **rating**, and **event management**.
- Utilized techniques including **Linux**, **MySQL**, **stored procedures**, and **indexing**.

SKILLS

- **Programming Languages:** Java(Adv), Python(Adv), C, C#, C++, SQL, Javascript, HTML
- **Development Tools:** Linux, Git, GitHub, Visual Studio, IntelliJ IDEA
- **Tech Stack:** MySQL,