

# Yihang Huang

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## Education

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University de Montréal, Master of Computer Science	Jan 2024 – 2026
Concordia University, Graduate Diploma in Computer Science	Sept 2022 – Jun 2023
McGill University, Master of Architecture	Sept 2016 – Oct 2017
South China University of Technology, Bachelor of Architecture	Sept 2011 – Jun 2016

## Experience

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**Software Engineer**, Apple – Cupertino, CA June 2005 – Aug 2007

- Reduced time to render user buddy lists by 75% by implementing a prediction algorithm
- Integrated iChat with Spotlight Search by creating a tool to extract metadata from saved chat transcripts and provide metadata to a system-wide search database
- Redesigned chat file format and implemented backward compatibility for search

**Software Engineer Intern**, Microsoft – Redmond, WA June 2003 – Aug 2003

- Designed a UI for the VS open file switcher (Ctrl-Tab) and extended it to tool windows
- Created a service to provide gradient across VS and VS add-ins, optimizing its performance via caching
- Built an app to compute the similarity of all methods in a codebase, reducing the time from  $\mathcal{O}(n^2)$  to  $\mathcal{O}(n \log n)$
- Created a test case generation tool that creates random XML docs from XML Schema
- Automated the extraction and processing of large datasets from legacy systems using SQL and Perl scripts

## Projects

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**Multi-User Drawing Tool** [github.com/name/repo](https://github.com/name/repo)

- Developed an electronic classroom where multiple users can simultaneously view and draw on a "chalkboard" with each person's edits synchronized
- Tools Used: C++, MFC

**Synchronized Desktop Calendar** [github.com/name/repo](https://github.com/name/repo)

- Developed a desktop calendar with globally shared and synchronized calendars, allowing users to schedule meetings with other users
- Tools Used: C#, .NET, SQL, XML

**Custom Operating System** 2002

- Built a UNIX-style OS with a scheduler, file system, text editor, and calculator
- Tools Used: C

## Skills

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**Languages:** C++, Python, Java, SQL, HTML, JavaScript, Solidity

**Technologies:** Microsoft SQL Server, UI, Blockchain