

Employment

Research Assistant **University of Alberta** **Summer 2019**

iChat AV

- Reduced time to render the user's buddy list by 75% by implementing prediction algorithm.
- Implemented iChat integration with OS X Spotlight Search by creating tool which extracts metadata from saved chat transcripts and provides metadata to a system-wide search database.
- Redesigned chat file format and implemented backwards compatibility for search.

Research Assistant **University of Lethbridge** **Summer 2018**

- Promoted to Lead Student Ambassador in Fall 2004; supervised 10 – 15 Student Ambassadors.
- Created and taught Computer Science course, CSE 099: Software Design and Development.

Education

Edmonton, AB **University of Alberta** **Fall 2018 – Current**

- B.S.C. in Computing Science (Honour), May 2021. In-major GPA: 3.5.
- Undergraduate Coursework: Operating Systems; Databases; Algorithms; Programming Languages; Comp. Architecture; Engineering Entrepreneurship; Calculus III.

Lethbridge, AB **University of Lethbridge** **Fall 2016 – Spring 2018**

- B.S.C. in Computer Science In-major GPA: 3.95.
- Undergraduate Coursework: Operating Systems; Databases; Algorithms; Programming Languages; Comp. Architecture; Engineering Entrepreneurship; Calculus III.

Technical Experience

Projects

- **Multi-User Drawing Tool** (2004). Electronic classroom where multiple users can view and simultaneously draw on a “chalkboard” with each person's edits synchronized. C++, MFC
- **Synchronized Calendar** (2003 – 2004). Desktop calendar with globally shared and synchronized calendars, allowing users to schedule meetings with other users. C#.NET, SQL, XML
- **Operating System** (2002). UNIX-style OS with scheduler, file system, text editor and calculator. C

Additional Experience and Awards

- **Instructor (2003 – 2005):** Taught two full-credit Computer Science courses; average ratings of 4.8 out of 5.0.
- **Third Prize, Senior Design Projects:** Awarded 3rd prize for Synchronized Calendar project, out of 100 projects.

Languages and Technologies

- C++; C; SQL; JavaScript; XSLT; XML (XSD) Schema
- Visual Studio Code; vim; GDB; Linux