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Canada

Ty Brass

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EDUCATION

B.Sc. - Computer Science	**University of Manitoba**	**Expected graduation April 2023**

- **Select Coursework**: Data Structures and Algorithms; Programming Practices; Human-Computer Interaction; Computer Systems; Operating Systems; Distributed Computing; Software Engineering; Databases.

B.A. - English Literature	**University of Manitoba**	**Sept 2017 – April 2020**

- **Minor**: Sociology
- **Coursework**: A broad survey centered on Victorian literature and literature of the working class.

EMPLOYMENT

Web Developer	**Manitoban Newspaper Corporation**	**May – Aug 2020**

- Eliminated redundancies within the organization's metadata database, reducing content tagging pollution — built up over a period of 11 years — by nearly 600% by remapping tags and associated article metadata, vastly increasing article discoverability, especially for legacy content.
- Modified and updated 3 PHP-based WordPress plugins.
- Evaluated the benefits and feasibility of a site-wide redesign and prepared over 10 years of content for migration from WordPress to Webflow.
- Employed knowledge of SQL and MySQL, Git, PHP, and WordPress.

PROJECTS

- **Sorting Visualizer** (GitHub, Website)
  Web application for visualizing 5 popular sorting algorithms (quick, merge, heap, insertion, bubble).
  HTML/CSS, Vanilla JavaScript
- **Personal Website** (GitHub, Website)
  A personal website containing my resume, a little bit about me, and relevant links.
  React, HTML/CSS
- **Linux-Based Server**
  At-home server for the video game *Valheim*, hosted on a Raspberry Pi.
  Linux, Docker
- **Workout Scheduler UI**
  In a group of four over a period of three months, designed and prototyped the interface of a workout scheduling app. Performed the role of *team lead*, managing 3 developers new to web technologies.
  HTML/CSS, JavaScript

ORGANIZATIONS AND AWARDS

- **AISES Membership:** Full member of the American Indian Science and Engineering Society.
- **Indspire *Building Brighter Futures*:** Recipient of Indspire's Building Brighter Futures scholarship for First Nations, Inuit, and Métis students.

SKILLS AND TECHNOLOGIES

- **Proficient**: Python; JavaScript; React; HTML, CSS; Git
- **Familiar**: C++; SQL; PHP; Java; Linux; WordPress; AWS; Docker; Node.js; Adobe Creative Cloud