

# Braden Dubois

## About Me

Student at the University of Saskatchewan, pursuing a B.Sc. (Double Honours) in Computer Science and Philosophy.

## Education

University of Saskatchewan B.Sc. Double Honours - Computer Science & Philosophy	Saskatoon, SK 2017 - 2022
University of Saskatchewan Certificate of Proficiency - Ethics, Justice, and Law	Saskatoon, SK 2017 - 2020

## Research & Work Experience

<b>Student Research Assistant</b> ◦ Research Assistant under the supervision of Dr. Eric Neufeld. ◦ Focus on causal inference in statistics, including the do-calculus of Judea Pearl et. al.	2020 - Present
<b>Teaching Assistant</b> ◦ Teaching Assistant for CMPT 145 - Principles of Computer Science.	Winter 2021
<b>Marking Assistant</b> ◦ Marking Assistant for CMPT 140 - Introduction to Creative Programming.	Fall 2020

## Hard Skills

<b>Languages</b> ◦ Python 3 ◦ TypeScript / ES6+ ◦ C++	◦ C ◦ HTML 5 / CSS 3 / SCSS ◦ Zsh / Shell-Scripting
<b>Tools / Frameworks</b> ◦ Git / VCS ◦ Next.js / React.js ◦ GraphQL / REST APIs ◦ Docker	◦ Github Actions / CI/CD ◦ PyPI / Packaging ◦ Documentation ◦ Firebase

## Soft Skills

◦ Time-management ◦ Self-directed ◦ Problem-solving	◦ Communication ◦ Quick-learner ◦ Team player
-----------------------------------------------------------	-----------------------------------------------------

## Featured Projects

<b>do-calculus</b> A software package implementing the <i>do-calculus</i> of Judea Pearl, a set of tools for measuring causal inference in statistics. Includes a complete API, and is available from the Python Package Index (PyPI). ◦ Python 3	bradendubois / do-calculus
<b>Competitive Programming</b> A collection of solutions (300+) to competitive programming problems, submitted to online judges, such as Kattis. ◦ C++ ◦ Python 3	bradendubois / competitive-programming
<b>Personal Website</b> A personal website/portfolio built in Next.js (React), used to showcase projects and my resume. Implements Incremental Static Regeneration (ISR) with statically-generated pages built by querying a GraphQL API (bradendubois / graphql.me) for content. ◦ TypeScript ◦ Next.js / React ◦ GraphQL ◦ SCSS	bradendubois / personal-website-v4
<b>xv6 Modifications</b> A series of modifications and features implemented in MIT's xv6-RISCV OS, including lazy memory allocation and various system calls. ◦ xv6-RISCV ◦ C	bradendubois / xv6-riscv-public

## Groups & Societies

<b>Arts and Science Students' Union</b> Technical Manager ◦ Responsible for maintaining the ASSU website (assu.usask.ca). ◦ General technical support.	2017 - 2020
<b>Computer Science Students' Society</b> Member	2017 - Present

## Achievements / Miscellanea

<b>Computer Science USRA</b> Recipient of a Department of Computer Science Undergraduate Student Research Assistant award.	Spring 2020
<b>Competitive Programming</b> Winning team of the Advanced category for the Local Qualifier in the ACM Inter-Collegiate Programming Contest at the University of Saskatchewan. Competed in the Rocky Mountain Regional Qualifier in Edmonton in October 2019.	Fall 2019
<b>Unix Bootcamp Presentations</b> Co-prepared and delivered intermediate-level presentations for the CSSS's Unix Bootcamp.	September 2019

\* References, employment-related or academic, available upon request.

\*\* Academic transcripts, if relevant/required, available upon request.