JEREMIE BORNAIS

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EXPERIENCE

Research Assistant
University of Windsor

📅 June 2020 – Present   📍 Windsor, ON

- **Developing web application** for the analysis and presentation of experimental SAS data
- Achieved **100X faster compute time** of select elements
- Using Flask, Bootstrap, NumPy, SciPy, and Matplotlib
- Member of the **Outstanding Scholars Research Program** for my academic and leadership achievements

Teaching Assistant
University of Windsor

📅 Sept 2020 - Dec 2020   📍 Windsor, ON

- Responsible for assisting students in the **Key Concepts in Computer Science** class
- Instructing 2 lab sessions and assisting in marking

EXTRACURRICULAR

- **Co-Founder and Web Developer** | BorderHacks, MLH Hackathon (borderhacks.com) (2020)
- **Co-Founder and Technical Lead** | WinHacks, MLH Hackathon (winhacks.ca) (2020, 2021)
- **Vice President** | Computer Science Society, responsible for representing needs of students (2020-2021)
- **Project Lead** | Developer Student Clubs, "Automagic Websites", a digital CV platform for CS students (2020)
- **UWindsor Hub Organizer** | 2020 Google Hash Code coding competition (2020)
- **Web Developer** | UWindsor Robotics, using Flask, SQLite, and Bootstrap (robotics.uwindsor.xyz) (2020)
- **Programming Mentor** | A-Team Robotics, teaching high school students OOP fundamentals using Java (2019)

TECHNICAL SKILLS

PROGRAMMING: Python, Java, C, HTML, CSS, JS, Ruby

TECHNOLOGIES: Git, Linux, Flask, Bootstrap, Discord.py, SQLite, Firebase

CLOUD: DigitalOcean, GCP, Heroku

LANGUAGES: English, French (DELF B1 Certified)

HONOURS AND AWARDS

- Governor General's Academic Medallion (2019)
- Schulich Leader Nominee (2019)
- Dean's List (2020)

EDUCATION

B.CS. Computer Science (Honours)
University of Windsor

📅 September 2019 – May 2023

- **98.6%** Major Avg – **97.5%** Cumulative Avg
- Recipient of the President's Scholarship, Eleanor Catherine Wallace Memorial Scholarship and Foresters Competitive Scholarship

PROJECTS

○ Domains Web Interface
- Full stack web app featuring **secure user authentication** and user file storage
- **Models SAS data** using linear algebra for the **UWindsor Department of Biochemistry**
- Developed using Python, Flask, SQLAlchemy, NumPy, SciPy, Bootstrap

○ Bornais.css
- CSS Framework designed to be semantically similar, but more versatile than Bootstrap
- Based on **Flex Box** and **CSS Grid**
- Fully **Mobile-Responsive** from scratch

○ CS Student Calculator
calc.bornais.ca
- **JavaScript**-based web application designed to assist computer science students
- Allows conversion between different number bases, matrix multiplication, solving Ax=b relations, and much more
- Developed using **JavaScript**, **Math.js**, and **Bootstrap**

○ Certificate Generator
- Custom script built using **Google Apps Script** that allows for generating a large number of certificates with one button
- Previously used by **BlackBerry** and **WinHacks**
- Saves event organizers hours of manual work

COMPETITIONS

HACKATHONS
- **First Place**: Hacklarious (2020)
- **Best Domain**: HackDSC (2020)
- **Best Domain**: CatHacks VI (2020)

CODING COMPETITIONS
- Google Kick Start Rounds A-D (2020)
- Google Code Jam Qualifier (2020)
- Google Hash Code (2020)