Brandan Burgess

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Education

University of Toronto

Toronto, ON

Honours Bachelor of Science in Computer Science (Co-op)

Sep. 2022 - May 2026

- Specializing in Software Engineering
- Relevant Courses: Software Tools and Systems Programming,
 Software Design/OOP, Intro to Computer Science I/II

Experience

Undergraduate Research Assistant

May 2023 - Present

Intelligent Adaptive Interventions Lab

University of Toronto, ON

- **Worked** as an undergraduate research assistant under the supervision of Ph.D. Angela Zavaleta to identify trends in academic interventions and student performance.
- Performed analysis on large datasets utilizing **Python** and **R** to measure and present effectiveness of interventions.
- Collaborated within multidisciplinary team to discuss findings and hypothesize potential causes and trends between analysis

Vice President - STEM Club

Sep. 2020 - June 2022

Ajax High School Ajax, ON

- Presided over club meetings for an 8-month period, introducing extracurricular topics and planning initiatives
- Facilitated several **course review seminars** ranging from introductory Algebra to Pre-Calculus
- Organized student PEER mentorship program which paired freshmen with seniors to provide additional academic support

Projects

UEFA Player Analysis | *Python, NumPy, Pandas, Matplotlib, Jupyter Notebook*

June 2023 - Present

- Developed and implemented metric specific data-frames to pre-process data in accordance with FIFA regulations
- · Introduced models replicating playstyle types demonstrating proficiency in Python, Pandas, and Matplotlib
- Visualized findings using correlation matrixes, histograms, and scatter plots to identify top performing midfielders by role
- · Performed linear regression to identify trends in decision-making with respect to age for midfielders

Food Network Project | *C, Visual Studio Code*

May 2023

- · Implemented a program to find and replace missing ingredients with similar ones using depth first search
- · Performed graph manipulation and queries on an adjacency matrix representing a recipe book
- Created a **recursive algorithm** to identify and list related ingredients up to arbitrary neighbour distance.

Skills

Languages: Python, C, Java, HTML/CSS, R

Libraries/Frameworks: NumPy, Pandas, TensorFlow, Matplotlib, ggplot, **Developer Tools**: Git, Android Studio, Jupyter Notebook, RStudio, Eclipse, Latex

Other: Communication, Problem Solving, Leadership

Awards

Valedictorian June 2022

Ajax High School

- Addressed graduating class of 2022 at convocation
- Awarded for exemplary leadership ability and academic excellence