

Tuhin Ghose

Software Engineer | Project Manager

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EXPERIENCE

Team Lead

Jan. 2020 – May 2020

University of Toronto | Led team to design a clothing storage system for Lord Lansdowne Child Care Center

- **Improved efficiency** by distributing work and **managing resources** using **Microsoft Projects** with the Project Manager and **consistently met deadlines**.
- Coordinated, helped, and **oversaw** team members in creating the **Conceptual Design Specification** (CDS) report.
- Final design made using **FUSION360** and the design met the **ISO standards** and the Ontario health standards.
- Developed presentation for the client that included salient features of the design, **performance in tests** prescribed by ISO, **comparison with industry** alternatives, and **cost analysis** demonstrating our design's feasibility.

Virtual Internship Program Participant

Aug. 2020 – Sept. 2020

KPMG | Data Analytics and Consulting | Participated in the open access Virtual Experience Program with InsideSherpa

- Used **pandas** in **python3** to assess data quality and omit entries with incorrect/missing information.
- Created a model based on **RFM analysis** to target the 1000 most high value customers.
- Made plots and graphs using **seaborn** and **matplotlib** to present insight and compiled a list of high value customers.

Member

Sept. 2019 - Present

Engineers without Borders (UofT Chapter) | Policy and Advocacy | Toronto

- Worked on **increasing awareness** about different candidates by **designing posters** and having booths that increased outreach of the 2019 Federal elections.
- **Planned logistics, designed the presentation**, and helped organize the Sustainability Industry panel that was attended by more than 50 people.
- Did research and aided the social media team to create posts and spread awareness about women in STEM.

EDUCATION

University of Toronto | Bachelor of Applied Science in Computer Engineering

Expected Apr. 2023

- sGPA: 3.53/4.0
- Pursuing minor in Artificial Intelligence Engineering
- Dean's Honor List (2020)
- Merit Certificate for APS105 (2020)
(for designing **Reversi bot** in **C** that defeated the course bots)
- Participant ILEAD Leaderships Labs (2019)
- Relevant Courses: Calculus II, Linear Algebra, Engineering Strategies and Practices II, Electrical Fundamentals, Computer Fundamentals using C, OOP in C++ (fall 2020), and Communication and Design using C++ (winter 2020)

SKILLS

- Languages: C, C++, Python, HTML, CSS, and MATLAB
- Libraries and Frameworks: NumPy, pandas, matplotlib, seaborn, scikit-learn, bs4, requests, and Bootstrap
- Tools: GitHub, Visual Studio, Jupyter, Linux, PyCharm, Adobe Illustrator, MS Project, MS Office, and Google Analytics

PROJECTS

- Heart Disease Predictor: **python3** program that analyzes trends between various risk factors using **pandas**, **seaborn** and **matplotlib** and uses ML models like **regression**, **decision trees**, **Naive Bayes** and **SVM** using **scikit-learn** to predict heart diseases.
- Araneae: **python3** **spiderbot** that uses **requests** to fetch a user entered **Wikipedia URL** and uses **BeautifulSoup** to **scrap** the page and stores the information from the article in a text file.
- Kryptos: **C** program that utilizes **dynamic memory allocation** and **sorting** for **string manipulation** to encrypt/decrypt text.