

# Shamanth Chedde

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## Skills

**Technical:** Python, R, Java, SQL, C, Linux, Git, MongoDB, SAS, NoSQL, HTML, CSS, JavaScript, React

**Tools:** Excel, R Shiny, Microsoft Power BI, SharePoint, PowerPoint, Word, IBM Watson

**Knowledge:** Data Scraping, Regression Analysis, Data Mining, Data Visualization, Data Structures, Data models, Object Orientated Programming

**Interpersonal:** Communication, Analytical, Problem-solving, Leadership, Teamwork, Project Management

**Spoken Languages:** English, Conversational French

## Education

**Honours Bachelor of Science, Candidate**

**Anticipated Graduation Date: Jun 2021**

*University of Toronto*

*cGPA: 3.20/4.0*

Major in Computer Science (Co-op), Double Minor in Statistics and French, 4<sup>th</sup> year

- Relevant courses: Regression Analysis, Statistics, Linear Algebra, Calculus, Introduction to Computer Science

## Data Science Work Experience

**Business Data Analyst (Co-op)**

**May 2019 – Aug 2019**

*CIBC, Toronto, ON*

- Analyzed project data to design project workflow that will improve team performance by 2%
- Performed cost-effective analysis on over 1000 reports to minimize the cost of data migration

**IT Architect/Business Analyst Assistant (Co-op)**

**Sep 2018 – Dec 2018**

*Ministry of Education, Toronto, ON*

- Implemented document parsing algorithms in Java to boost the accuracy of search results by 8%
- Performed weekly dashboard testing on Power BI reports to increase data quality by 5%

**Research Assistant**

**Jun 2018 – Aug 2018**

*Flourish Program, University of Toronto Scarborough, Toronto, ON*

- Cleaned large data sets using Excel (pivot tables, IF statements) to prepare data for analysis

**Research Assistant**

**Sep 2017 – Dec 2017**

*Olsen Lab, Rotman Research Institute, Toronto, ON*

- Developed Python scripts to extract, clean and analyze brain imaging data from an online database

## Data Science Projects/Competitions

**Human-Computer Interaction Project**

**May 2020 – Aug 2020**

- Collected and analyzed data on user needs to identify problems faced in post-graduate studies
- Developed and tested a prototype to assess the usability of the proposed solution

**NBA Fantasy Sports Dashboard (Personal Project)**

**Apr 2020**

- Implemented Python scripts to collect performance data online of over 500 players
- Developed regression model that best predicts the statistics of a player
- Created dashboard using R Shiny to interactively visualize predictions made by data model

**The BRIDGE Hackathon (Placed 1<sup>st</sup> Place)**

**Feb 2019**

*University of Toronto Scarborough, Toronto, ON*

- Analyzed demographic and sales data to create marketing strategy that will increase attendance at sporting events

**Brock Datathon,**

**Sep 2017**

*Brock University, St. Catherine's, ON*

- Formulated mathematical model using a dataset of over 79 variables to predict house pricing

## Additional Work Experience

**Research Assistant**

Jan 2020 – Mar 2020

*CMS Undergraduate Research Group, University of Toronto Scarborough, Toronto, ON*

- Developed Python scripts to automate the collection of bibliographic data on published papers
- Implemented new features to improve the design and functionality of the research group's website
- Designed a workflow to easily maintain and update the website

**Special Projects Software Developer**

Sep 2019 – Apr 2020

*The BRIDGE, University of Toronto Scarborough, Toronto, ON*

- Implemented a user-friendly website with React for researchers to easily upload and analyze data
- Investigated issues in code to improve functionality and efficiency of website

**Business Analyst (Co-op)**

Jan 2018 – Apr 2018

*Workplace Safety Insurance Board, Toronto, ON*

- Oversaw production of a new branch SharePoint site and dashboard to display branch information
- Produced business requirement documents to provide developers specifications of the product
- Wrote detailed concept documents to collect information on proposed system enhancements

**Get Started Coach**

May 2017 – Sep 2017

*Academic Advising and Career Center, University of Toronto Scarborough, Toronto, ON*

- Facilitated group activities and discussions to help students prepare for their first year of university
- Presented university policies to over 100 students and parents to provide academic information
- Coordinated daily activities for the Get Started program in a team of 20 people

**Additional Projects/Competitions****Blackjack Mobile Game (Personal Project)**

Jan 2018 – Apr 2018

- Created an Android application of the card game Blackjack using software design techniques to ensure clean structure and efficiency of code

**Mobile Shopping Application in Introduction to Software Design**

Nov 2017 – Dec 2018

- Collaborated in group of 5 to create an Android shopping application using Java
- Enhanced user-experience by implementing a voice recognition feature to the application

**Towers of Anne Hoy in Introduction to Compute Science II**

Jul 2017

- Analyzed different recursion strategies to find the most efficient algorithm that simulates how to solve a variant of the Towers of Hanoi problem in the least amount of steps

**UTSC Coding Competition,**

Mar 2017

*University of Toronto Scarborough, Toronto, ON*

- Developed algorithms using complex data structures to efficiently solve mathematical case studies
- Identified errors in code through debugging and creating test cases for applications

**UTSC Stock Exchange Competition**

Sep 2016 – Nov 2016

*University of Toronto Scarborough, Toronto, ON*

- Examined stock market trends to make informed transactions and manage stable portfolio

**Teaching Experience****Part-Time Tutor**

Mar 2019 – present

- Preparing lesson plans to teach high school students topics in mathematics and computer science
- Assisting students by explaining difficult concepts improve their understanding of course material

## **Volunteer Experience**

### **Steering Committee Member**

**May 2019 – Aug 2019**

*CIBC, Toronto, ON*

- Organized social events in a team of 30 to enhance the work experience of over 100 co-op students

### **Campus Tour Guide**

**Oct 2016 – Apr 2019**

*Admissions and Student Recruitment, University of Toronto Scarborough, Toronto, ON*

- Presented guided tours to promote the university campus to students and parents
- Provided detailed answers to questions asked by visitors to clarify their doubts
- Ensured all members were comfortable by attending to those with special accommodations

### **First-Year Peer Mentor**

**Sep 2017 – Dec 2017**

*Department of Student Life, University of Toronto Scarborough, Toronto, ON*

- Built strong relationships with mentees to make them feel welcome in a new environment
- Led mentees in activities and group discussions to ease their transition to university