# Piyush Datta

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## EDUCATION

**University of Toronto (September 2014 – May 2018), Toronto, ON**
- Courses taken: *Introduction to Computer Science, Software Design, Computational Thinking, Mathematical Expression and Reasoning for Computer Science,* and *Introduction to the Theory of Computation*

## SKILLS

**Languages used in production:** Java, Python, C/C++, Typescript/Javascript, Angular 5+, Node Js, Express, HTML/CSS
**Tech stack used in production:** Android, Google cloud/ML engine, Google/Yelp API, Firebase, Django, PostgreSQL, SQLite, Testing (JUnit, Python Unit Test), GUI (JavaFX, Tkinter, Qt), Retrofit, REST API, Tensorflow, Numpy, Pandas, Git, Windows, Linux
**Others not used in production:** Racket (functional), React native, Excel Macro/VBA

## PROJECT

**Image Tagger**                                    https://github.com/PiyushDatta/Image_tagger
*Java, JavaFX*
- Simple to use GUI that allows users to put self-generated tags on images
- Uses a Model-View-Controller design to provide maintainability between the components and the GUI
- Code is Serializable and therefore maintains a record of tagged images, modified images, and modified tags

**SEC Edgar File Downloader**                       https://github.com/PiyushDatta/SEC_file_downloader
*Python, Tkinter, SQlite, Pandas, BeautifulSoup*
- Only open-source GUI to download SEC Edgar public filings from SEC website directly
- Optimized code with web scraping to remove the project's dependency of a SQL database
- Code is Serializable and therefore maintains a record of user settings and user's choice of directory

**Two Sigma - AI Competition - Halite 2**                       https://halite.io
*Python, Tensorflow, Numpy*
- Used artificial intelligence (feed forward) to train and teach my bot to beat other bots in a virtual game created by Two Sigma (Ranked top 10% of players in Halite 2, current website shows stats for Halite 3 which is ongoing)
- Scraped data from google cloud buckets and trained my bot on google cloud virtual machines.

**Monte Carlo Pi Approximation Simulation**        https://github.com/PiyushDatta/Monte-Carlo-approximation-of-Pi
*Python, Django, Angular, Typescript, PostgreSQL*
- Uses a circle and square to demonstrate the approximation of pi using the Monte Carlo method
- Created a Django REST API backend that stored x and y points in a PostgreSQL, and a command to populate SQL
- Created an Angular frontend using Typescript and HTML/CSS that called this REST API
- Uploaded project on the cloud (Heroku) where frontend and backend were uploaded to two different websites

**Cashmi - Android Application**                       Coming January 25, 2019
*Android, Java, Firebase, Facebook SDK*
- Provides users with an easy way to split bills/transactions with other users
- Uses Firebase to store User and Transaction information and interactions, and Facebook SDK to sign in users
- Makes use of Recylerview and Listview to shuffle through data contained in adapters

**Other projects – Friendli** (Android Application/Google API/Yelp API/Firebase/Facebook SDK),
**Personal Website** (Node Js/Express/Typescript/HTML/CSS), **Weather App** (Node Js/Express/Openweathermap API)

## WORK EXPERIENCE

**City of Toronto**                                                       Toronto, ON
*Financial Trainee (Accounting)*                                          May 2018 - Present
- Increased KPI (performance) of the Collection team from 64% (underperforming) to 70.25% (above required performance level) in 1 month and 98% to 100% in 4 months for Invoicing team

**Scotiabank (Big 5 Canadian Bank)**                                      Toronto, ON
*Information Technology and Data Analytics Audit Intern*                   May 2016 - August 2016
- Created macros within excel to extract data from sources like lotus notes to visualize live issues and statuses