

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, Kotlin, Angular 5+, Node Js, Express, HTML/CSS

Tech stack used in production: Android, Google cloud/ML engine, Heroku Cloud, Google/Yelp API, Firebase, Django, PostgreSQL, SQLite, Testing (JUnit, Python Unit Test), GUI (JavaFX, Tkinter, Qt), Retrofit, REST API, Tensorflow, Numpy, Pandas, Git

Others not used in production: Racket (functional), React native, Excel Macro/VBA

WORK EXPERIENCE

Givex

Toronto, ON

Software Developer

Feb 2019 - Present

- Backend work with Python, Javascript, C/C++, PostgreSQL, and Unix with an Agile (extreme programming) philosophy
- Implemented gift card, point of sale and other transaction-based solutions for companies such as Nike, McDonalds, Marriott International, and many more
- Integrated Apple wallet and Google pay, along with web services for both, into our gift card systems
- Developed SOAP APIs for integration with third party vendors, such as CAA

PROJECT

Cashmi - Android Application

<https://play.google.com/store/apps/details?id=com.application.cashmi>

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 RecyclerView and ListView to shuffle through data contained in adapters

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

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),

Craigslist Scraper (Django/Python Web Application/Heroku/BeautifulSoup4)