Pushkin Abbott

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Education

University of Waterloo
Bachelor of Computer Science
Sep. 2015 - Present | Waterloo, ON
Last Term. Avg.: **85.2%**

Skills

Programming

Languages:

Python • C++ • JavaScript

Tools & Frameworks:

• Python : Flask, Pandas, Numpy, Scikit-learn

• JS: NodeJs, Express js, Angular js, Socket.io

• Git, Bash, HTML/CSS, MongoDb, AWS, Bootstrap

Coursework

• Operating Systems
• Algorithms
• Object Oriented Programming
• Numerical Computation

Interests

Soccer

• 4 Years in National Soccer Development Program chosen among 1000+ soccer players

• Defending Intramural Champions in the competitive league for 2 terms

Community Service

• Organized a charity run with over 50 volunteers & 300+ participants, raising $5,000 to promote women's safety

Photography

• Check out my photography **here**

Experience

Deloitte Innovation Lab | Software Developer Co-op
September 2017 - December 2017 | Waterloo, Ontario

- Developed different machine learning models using data from range finder sensors and an API in Flask to interact with them.
- Developed a Neural Network for images collected by a Raspberry pi to classify images and worked with Object detection using **Mask-RCNN**.
- Designed & implemented a new scalable, realtime notification system for the WebApp from the ground up using **socket.io** and **Angular2**.

Veriday | Quality Analyst Co-op
May 2016 - August 2016 | Mississauga, Ontario

- Independently reduced deployment time by **20%** through optimization of daily regression test cycles and led research to implement **BDD** practices.

Projects

Stutter.io | To help people who stutter | **Best Machine Learning Hack**

- Developed the backend to identify which word a person stutters on, using time-stamped speech-to-text and machine learning(KNN).
- Technologies used: **Python**, **PyDub for Audio Processing**, Flask, Google's Speech-to-text, pyAudioProcessing for Machine Learning.

Senndat | Web Note-taking Platform | **https://goo.gl/EvAxFH**

- Created a shared, note-taking platform, indexed by courses.
- Integrated the Quill Editor API and saved deltas to the MongoDB database.
- Developed a **RESTful API** with Node.js and implemented an Angular frontend, currently deployed on AWS EC2

CookforMe | An app to get people to cook for you | **https://goo.gl/tkuVaY**

- Designed and developed a web-app and companion Messenger bot to make it easy for users to request and view dishes to eat
- Used a tensorflow convulated Neural network, retrained it to identify food dishes and reject requests which are not food items.
- Technologies used: Twilio API, Angular, **Flask**, MongoDB and Heroku

Dungeon Crawler game | Terminal game | **https://goo.gl/uUfJkZ**

- Developed a 5-level rogue-like game played on a dynamically generated board, derived from user-defined map layouts
- Used the Observer, Visitor, Decorator and Factory patterns, to control spawning, movement and interaction between the player and enemies

Black Tigers FC | Official club website | **https://goo.gl/bwFLpA**

- Developed the official website & marketed the online presence for Black Tigers FC to reach 5000+ likes on the Facebook page.
- Technologies used: **HTML**, **CSS**, JS, Angular, Node.js, MongoDB