Mathew **Perez**

(469) 964-6005 | matperez755@gmail.com | joshuaconcon.ca | GitHub: MathewPerez | LinkedIn: mathew-perez

Education

University of Texas at Dallas | MS — *Computer Science* *Richardson, TX* | **Aug 2019 - Present**
- **Concentration**: Intelligent Systems

University of Texas at Austin | Honors BBA — *Management Information Systems* *Austin, TX* | **Aug 2016 - Jun 2019**
- **Certificate**: Computer Science

Experience

Facebook | **Data Engineer Intern** *Menlo Park, CA* | **May 2019 – Aug 2019**
- Designed, built, and tested Data Swarm pipelines that synthesized over 6 months of data from multiple organizations providing over 10 new specialized and aggregate metrics
- Created custom Jinja template to implement intuitive data dashboard with four bottom line metrics and over 12 graphs
- Worked closely with mobile platform engineers to correctly source more than six client and server side logging data tables for ETL design and implementation
- Formulated three different Presto metrics and graphs with ML Engineers and Product Managers to prove value of adding my created metrics to current ML models

University of Texas at Austin | **Undegraduate Research Assistant** *Austin, TX* | **Feb 2019 – May 2019**
- Applied Python NumPy libary and csv module to clean and transform over 5 GB of image matrices to feed into first layer of Convolutional Neural Network
- Built Java application through restfb API and login dialog through Facebook JavaScript SDK to automate social media research survey

Facebook | **Facebook University Data Analytics Intern** *Menlo Park, CA* | **Jun 2018 – Aug 2018**
- Created Data Swarm pipeline improving accuracy of over two years of data to produce over 30 valuable metrics
- Overhauled highly-ued data dashboard with over 120 aggregate and rolling metrics and over a dozen charts processed daily

Skills

Languages Python, Javascript, Java, HTML/CSS, SQL, C, Bash, LaTeX
Tools & Tech UNIX/LINUX, React, Node, GIT, SVN, Django, Jenkins, Flask, SQLite, Docker

Projects

Closetr | **Personal Project** — *Team of 2* *git.io/fjN3P* | **Nov 2018 - Present**
- Built the Backend Endpoint of the Closet Tracker Application in Express, Node and MongoDB
- Setup a Continuous Integration and Continuous Delivery Pipeline with CircleCI and Heroku

Sailböat | **Startup** — *Team of 3* *git.io/fjxCV* | **May 2017 - Apr 2018**
- Built a local food search/discovery app with React Native and assisted with developing the Business Plan
- Won $1500 in funds at the UTSC Startup Competition as well as residency at UTSC's incubator, The HUB
- Validated Sailböat at DMZ's student incubation program, Basecamp into a more viable venture

shARe | **HackHarvard** — *Team of 4* *git.io/fjxCw* | **Oct 2017**
- Built an anonymous discussion platform on an Augmented Reality iOS App with Swift + ARKit

Obstacle Avoiding Targeting Robot | **RoboHacks** — *Team of 4* *git.io/fjN31* | **Mar 2016**
- Build an autonomous robot that searches for faces with an onboard camera and avoids running into obstacles
- Implemented shuffling of training data with NumPy for the face detection computer vision algorithm

Volunteer Experience

AMACSS | **Mathematics Representative**   *Scarborough* | **Oct 2016 – Apr 2018**
- Organized and hosted review seminars for over 200 students for both math and computer science courses
- Developed an exam study guide to demonstrate key topics in a computer science course on data structures

University of Toronto | **Student Assistant**   *Scarborough* | **Sep 2016 – Dec 2016**
- Developed YouTube videos to demonstrate various topics covered in an introductory computer science course