Mathew **Perez**

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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, SQL, Java, C/C++, R, Swift, PHP, HTML/CSS
Tools & Tech   UNIX/LINUX, Git, Apache Hive, Apache Hadoop, Presto, ASP.Net Core, Flask

Projects

Austin Environmental Directory Website | **Senior Capstone Project** — *Team of 2*   **February 2019 - May 2019**
- Overhauled the MariaDB backend point to decrease web page load times and simplify website maintenance for stakeholders
- Mordernized the Directory website by rewriting over 20 PHP and CSS files