Bryce Pedroza

https://brycepedroza.github.io • brycepedroza@gmail.com • (602) 821-0668 • linkedin.com/in/bryce-pedroza

Education

Arizona State University

Computer Science, MS — *Aug. 2019 – Expected May 2020*

- NSF funded Academic Success and Professional Development Scholarship Recipient
- Groups: Software Developers Association member, Motivated Engineering and Transfer Student (METS) volunteer
- Relevant Courses: Data Visualization, Web and Multimedia Databases, Cloud Computing

Computer Science, BS – Summa Cum Laude (3.97/4.0) — *Aug. 2015– May 2019*

Experience

Starbucks – Information Security Intern (*Scottsdale, AZ)* — *Aug. 2018 – Present*

- Built security orchestration to automate steps in the deployment of apps and surveys to in-store US devices, reducing deployment process time by more than 75%.
- Maintained vulnerability management for Global Cybersecurity Services at Starbucks.
- Created reporting scripts and visualizations for team and upper management to drive security compliance within the organization.
- Implemented continuous integration and continuous deployment (CI/CD) with Jenkins into team's development process.
- **Technologies:** Python (Flask), Microsoft Azure, Tableau, Docker, Jenkins, SQL, git

Walmart Labs – Software Engineering Intern *(Bentonville, AR)* — *May 2018 – August 2018*

- Developed internal application for the Payment Acceptance Team to audit how Walmart handles payment card transactions.
- Used internal REST APIs to determine the attributes associated with issuer/bank identification numbers that Walmart supports.
- Enabled business partners to view and update transaction rules associated to more than 10,000 different types of credit cards.
- Refactored legacy point of sale troubleshooting tools.
- **Technologies:** React, Node.js, JavaScript, HTML, CSS, git

Arizona State University – Undergraduate Teaching Assistant (*Tempe, AZ*) — *Jan. 2017 – May 2019*

- Assisted Professor in conveying object-oriented programming and data structures concepts to students.
- Held office hours, hosted review sessions with 20+ attendees, and served as a bridge between students and Professor.
- **Technologies:** Java

Projects and Research

[Master's Thesis] Arizona State University – Context Management Access Control with Hadoop — *Aug. 2019 – Present*

https://github.com/brycepedroza/docker-hadoop-python

- Implementing a system to restrict or allow data access within the Hadoop Distributed File System (HDFS) depending on roles and additional attribute-based policies.
- Policy ingestion done at the data stream layer and MapReduce layer will allow for more customized and granular form of access control within HDFS with minimal overhead.
- **Technologies:** Apache Hadoop (HDFS & MapReduce), Apache Kafka, Apache Hive, Docker, Python (Faust), Java

[Senior Capstone] Nationwide Insurance – Predicting Forest Fires with Machine Learning — *Aug. 2018 – May 2019*

- Collaborated with Nationwide software engineers to develop process to assess and visualize risk of a forest fire when offering a customer homeowners insurance.
- Utilized forest fire data, Nationwide fire insurance claim data, and weather APIs to determine an area's probability of a forest fire.
- Built front-end and back-end capabilities utilizing container technology.
- **Tools**: Python, Flask, Node.js, React, Docker, git

Arizona State University – Academic Success and Professional Development Research Hub — *Jan. 2019 – Present*

https://github.com/brycepedroza/react_asap

- Built a Node JS application with React front-end for fellow students and researchers to find project and research topics.
- Application will be a part of the Nation Science Foundation's review of ASU's Academic Success and Professional Development program. (Current funding is three years, $5 million)
- **Tools**: MongoDB, Node JS, React, JavaScript, git

Interests

Houseplants, Spikeball, Domestic Policy, Stock Market Analysis, Cooking