# Bryce Pedroza

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## Experience

**Information Security Engineer** – *Starbucks Coffee Company (Phoenix, Arizona)* *June 2020 – Present*

- Automate vulnerability management – Automation and data pipelines to handle tagging and due date assignments of more than 1 million vulnerabilities per day. Utilize tags to build robust RBAC for self managed patching across Starbucks Technology teams.
- Maintain scanning infrastructure – Build global vulnerability scanning infrastructure across on-prem data centers, Azure, manufacturing plants, and regional offices across North America, EMEA, and APAC.
- Manage Starbucks's Security Orchestration, Automation, and Response (SOAR) platform. Integrate with SIEM and other security consoles to capture hundreds of notable events and incidents daily. Build playbooks to collect supporting evidence, extract indicators of compromise (IOCs), and automate security responses.
- Operate cybersecurity asset management. Monitor 100,000+ devices across multiple different inventory and security agent tools to assess security gaps and build supporting enforcements and automations to remediate security gaps.
- User and entity behavior analytics (UEBA) – Maintain data pipelines that feed millions of logs into UEBA platform to assess internal risk daily. Build supporting automation/playbooks for case management,
- **Products - Own**: Tenable.io, Kenna Security, Axonius, XSOAR
- **Products - Power-User**: Tanium, Splunk ES, Prisma/Redlock, Netskope
- **Technologies**: Python (Flask and Celery), Docker, Redis, Git/Github, Linux

**Information Security Intern** – *Starbucks Coffee Company (Phoenix, Arizona)* *Aug. 2018 – May 2020*

- Built security orchestration to automate deployments of apps and surveys across 7000 North American retail locations in mobile device management (MDM) console, reducing deployment process time by more than 75%.
- 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 the team's development process.
- **Technologies**: Python (Flask), Microsoft Azure, React, Tableau, Docker, Jenkins, SQL, git

**Software Engineering Intern** – *Walmart Labs (Bentonville, Arkansas)* *May 2018 – Aug. 2018*

- Developed an 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 with more than 10,000 different types of credit cards.
- Refactored legacy point of sale troubleshooting tools.
- **Technologies**: React, Node.js, JavaScript, HTML, CSS, git

**Undergraduate Teaching Assistant** – *Arizona State University (Tempe, Arizona)* *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

## Education

**Arizona State University** *Tempe, Arizona*

- Computer Science, MS *Aug. 2019 – May 2020*
  - *NSF funded Academic Success and Professional Development Scholarship Recipient*
  - *Groups: Software Developers Association member, Motivated Engineering and Transfer Student (METS) volunteer*
- Computer Science, BS – Summa Cum Laude (3.97/4.0) *Aug. 2015 – May 2019*

## Research and Projects

**[Urban Climate Informatics] Tweather – Visualizing and Tracking Weather Sentiment with Twitter** *Spring 2020*
https://brycepedroza.com/tweather

- Leveraged Python's Tweepy library to stream geo-tagged Tweets and observe if Twitter can be a substitute for calculating thermal comfort.
- Logistic regression model utilized to classify Tweets as related to weather or not.
- Built and trained a Naïve Bayes classification model to predict if a tweet had a positive or negative sentiment.
- Application built to map weather related tweets and their associated sentiment and visualization built to calculate general trends over a given area.
- Azure app service hosting with GitHub workflows.
- Technologies: React, JavaScript, Python (Fast API), Azure (App service, Cosmos DB)

**Context Management Access Control with Hadoop and Kafka** *Fall 2020*

- Data-lake POC implemented to restrict or allow data access within the Hadoop Distributed File System (HDFS) depending on roles and additional attribute-based policies of a given user with granularity at the key: value level.
- Policy ingestion is done at the data stream layer and MapReduce layer to allow for a 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