

Diego Delgado

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Technical Skills

Languages: Python, Java, HTML5, CSS3, JavaScript, PHP, MATLAB

Frameworks: Node, React, Angular, Material-UI, Bulma, Bootstrap, Flask, Spring Boot, Maven

Technologies: Amazon Web Services, Microsoft Azure, Heroku, Jenkins, Git, Apache Spark, Apache Hadoop, Apache ActiveMQ, REST, ML/AI, Jira, Confluence, Redmine, Bitbucket, Analytical Solver

Databases: SQL, MySQL, MongoDB, AWS Dynamo DB, AWS RDS, H2, SQLite

Work Experience

Software Tester at Veracity Engineering,
Egg Harbor Township, NJ
June 2019 — January 2020

- Architected an **automated testing CI/CD pipeline** using **Jenkins** for the Peabody web/mobile application that targeted the **UI, business logic, and performance** of this **mission-critical application** and **slashed** the time it took to bring features/fixes to the field **by 25%**.
- Reported and resolved software bugs with the software team and replicated these bugs with the **Selenium Python library** to achieve a more **encompassing test suite**.
- Created **comprehensive test documentation** in **Redmine**, such as **Traceability Matrices and Test Plans**, that reduced ambiguity and **cut-down** the number of failed code commits **by 20%**.

Junior Software Developer at FAA
Technical Center, Egg Harbor Township,
NJ

June 2018 — August 2018

- Designed **Data Mining & Analytical** algorithms in **MATLAB** that **cut down** the part 107 waiver (i.e. the ability to pilot a drone that weighs 55lbs or less) approval process for flight data **from a week to 3 days or less**.
- Developed a prototype of the data communication function of the UAS Traffic Management web/mobile application using **Java, Spring Boot, Apache ActiveMQ, and Web Sockets**, which established a **strong and secure connection** from the drone pilot to the UAS Data Exchange and FAA Air Traffic for **near-instantaneous flight plan authorization**.
- Managed **Bitbucket Repository** and **creating Documentation** for the UAS Traffic Management web/mobile application such as **User Stories, Use Case Diagrams, ER Diagrams**, etc. in **Jira** and **Confluence**.

Education

Bachelor of Science (B.S.) in Computer Science & Information Systems, Stockton University,
Galloway, NJ - GPA: 3.29
January 2018 — May 2020

Relevant Coursework: **Business Analytics, Data Mining & Knowledge Discovery**, Software Engineering & Security, Data Structures & Algorithms

Associates of Science (A.S.) in Computer Science & Information Systems, Atlantic Cape Community College, Mays Landing, NJ - GPA: 3.6
September 2016 – December 2017

Relevant Coursework: **System Analysis & Design**

Projects

[Twitter Sentiment Dashboard:](#)

- Utilized **Apache Spark** structured streaming and the **Dash-Plotly Python** library to produce a real-time dashboard of twitter sentiment.
- SQLite** was used to supply live data to the line graph while **AWS SQS** messages were used for the pie chart and bar graph of historical data.
- PaaS** cloud provider **Heroku** was used to host the application while the **PySpark Data Analysis ETL Pipeline** notebook is hosted in **Databricks**.

[Global Covid-19 Dashboard:](#)

- The **JavaScript** framework **React** was used to develop a Covid-19 dashboard for the world.
- Chart-JS** was used to produce graphs and figures on Covid-19 statistics for the globe and individual countries.
- Material-UI** was used for application styling while **IaaS** provider **AWS Amplify** was used to host.

[Fake News Detector:](#)

- Developed a fake news detector using three **Machine Learning** models built using **Scikit-Learn**.
- These machine learning models were trained in the Kaggle fake news dataset.
- Leveraged the **Flask** micro web framework to display the results to the viewer.

[Code For Philly:](#)

- Contributing to the [Philadelphia Bail Fund Interactive Data Portal](#).
- This **open-source project** aims to provide reports and visualization on bail and track overtime its impact on different populations.

Soft Skills

- Excellent analytical problem-solving and data analysis skills.
- Ability to adapt to a fast-paced environment.
- Strong verbal and written communication skills.
- Excels working in a team environment.