

# Jason Damiani

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## Experience

2018–Present **Data Engineer**, *Vituity*, Durham, NC.

Full-stack engineer on the Data Operations team at a physician-owned healthcare practice management group

- Retrieved clinical data using API integration and web scraping techniques in Python
- Developed mobile applications using React Native and the Fast Healthcare Interoperability Resources specification
- Containerized applications with Docker to create development environments and deploy production code

2017–2018 **Data Engineer**, *Citadel*, Raleigh, NC.

Supported alternative data initiatives for the fundamental equities businesses at a leading hedge fund

- Developed Apache Spark jobs using the PySpark API to extract, transform, and load vendor big data sets
- Orchestrated job flows using Apache Airflow which integrated with AWS EMR, AWS S3, Vertica, and SQL Server
- Asynchronously performed millions of daily HTTP requests to vendor APIs using Python concurrent futures
- Built tooling to wrap internal services providing proxied access to AWS as custom Airflow hooks and operators
- Configured and administered multiple Airflow installations for a large team of data engineers

2015–2017 **Data Scientist**, *Cisco Systems*, Research Triangle, NC.

Technical Lead of a data science team within the Operational Architecture organization

- Optimized the pricing structure charged for loaned demo hardware using a model built with Palisade Evolver
  - Reversed operating budget from deficit to surplus with a net revenue change of roughly \$15 million
- Developed a methodology to attribute replacement parts to warranty claims across disparate Oracle systems
  - Increased order line level matching from roughly 70% to over 99%
- Developed a tool to parallelize moving data between heterogeneous databases with SQLAlchemy in Python
- Predicted time to close customer support cases using machine learning models trained with scikit-learn in Python
- Provided mentorship and guidance through technical reviews of team project work and leadership of hackathons
- Administered PostgreSQL and Microsoft SQL Server installations for a large team of data scientists

2013–2014 **Catastrophe Risk Analyst**, *Insight Catastrophe Group*, New York, NY.

Provided decision support services to property insurers

- Reduced report delivery time by 67% using automated T-SQL scripts, SQL CLR stored procedures, and Python
- Refactored stored procedures calculating risk analytics to achieve 75% reduction in lines of code and run time
- Analyzed logs to model server traffic as a Poisson Process in order to determine hardware requirements
- Conducted sensitivity analyses on the variable inputs to the AIR CLASIC/2 hurricane model

2012–2013 **Technology Analyst**, *JPMorgan Chase*, Tampa, FL.

Java developer on the Electronic Financial Services core distributed platform

2011 **Risk IT Intern**, *Genworth Financial*, Richmond, VA.

Mathematically modeled the problem of fitting insurance portfolio loss distributions

- Implemented a C# module to solve the model using a Quasi Newton method in the Microsoft Solver Foundation API
- Reduced time to fit distributions from hours to seconds and improved shock value accuracy by millions of dollars

## Education

2012 **B.S. Industrial and Systems Engineering**, *University of Florida*, Gainesville, FL, 3.8/4.0.

Cum Laude

## Projects

**PyRaceView**. Extracted GPS data from NASCAR RaceView. Reverse engineered a Flash application to decode byte streams from a websocket using NumPy for bitwise arithmetic. [www.github.com/jdamiani27/pyraceview](https://www.github.com/jdamiani27/pyraceview)

**Scraping Racing Reference**. Retrieved, cleaned, and restructured historical NASCAR race results data for analysis using Requests, BeautifulSoup, and Pandas. [www.jasondamiani.com/2018/06/05/racing-reference-data.html](http://www.jasondamiani.com/2018/06/05/racing-reference-data.html)

## Skills

Languages Python, SQL, Javascript

Technologies Apache Spark, Apache Airflow, Hadoop, Excel, Git, React Native, SQL Server, PostgreSQL

Concepts Operations Research, Mathematical Modeling, Machine Learning, Deep Learning