Jason Damiani

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Experience

2019–Present **Data Scientist**, *Cisco Systems*, Research Triangle, NC.
Transforming Customer and Partner data operations
- Architected workflows to migrate 1+ Billion lines of installbase data from Oracle to Snowflake for analysis
- Implemented a Python Flask based API to orchestrate and monitor thousands of monthly Prefect jobs
- Developed a Python package to migrate data between heterogenous databases in parallel using SQLAlchemy and PyArrow

2018–2019 **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%
- 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.

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. Python package to extract data such as car gps position, throttle, and brake from NASCAR Raceview.
www.github.com/jdamiani27/pyraceview

Skills

Languages Python, SQL, Javascript
Technologies Prefect, Apache Spark, Apache Airflow, Hadoop, Excel, Git, React Native, SQL Server, PostgreSQL
Concepts Operations Research, Mathematical Modeling, Machine Learning, Deep Learning