

Jason Damiani

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Experience

- 2021–Present **Machine Learning Engineer**, *RadiLens*, Durham, NC.
Doing it all at an early stage healthcare startup supporting radiology practices
- Built a streaming platform to provide real-time analytical solutions to radiology workflows using Kafka and Python
 - Prioritized radiology studies using a machine learning model leveraging natural language processing and gradient boosting
 - Developed a web application to present key metrics and analytic outputs to stakeholders using the Plotly Dash framework
- 2019–2021 **Data Scientist**, *Cisco Systems*, Research Triangle, NC.
Transformed Customer and Partner data operations
- Trained language models to automatically route customer service cases created over email
 - Architected Prefect workflows to migrate 1+ Billion lines of installbase data from Oracle to Snowflake for analysis
 - 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
- 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
- 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
 - 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
- Identified and corrected Section 508 disability compliance issues
 - Detailed and verified remediation to application vulnerabilities assessed by ethical hackers
- 2012 **Sales Intern**, *AxoGen*, Alachua, FL.
Supported the national sales team of a leading regenerative medicine company
- Developed an ASP .NET website allowing sales representatives to report, view, and plan daily sales activity
 - Interfaced with executives to develop daily sales activity reports and analytics to drive corporate strategy
- 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 | President, Alpha Pi Mu Industrial Engineering Honor Society | Member, Tau Beta Pi Engineering Honor Society

Certificates

2020 **Deep Learning Specialization by deeplearning.ai, Coursera.**

- Neural Networks and Deep Learning
- Structuring Machine Learning Projects
- Convolutional Neural Networks
- Sequence Models
- Hyperparameter Tuning, Regularization, Optimization

Projects

PyRaceview

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

Scraping Racing-Reference.info

Retrieved, cleaned, and restructured historical NASCAR race results using Requests, BeautifulSoup, and Pandas
www.jasondamiani.com/2018/06/05/racing-reference-data.html

PGA Leaderboard Client

Python package to retrieve golf tournament leaderboards and player shot data from PGATOUR.com
www.github.com/jdamiani27/pga-leaderboard-client

Skills

Languages

- Python
- SQL
- Swift
- Javascript

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Technologies

- Microsoft Excel
- Prefect
- Apache Spark
- Tensorflow

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Concepts

- Statistics
- Operations Research
- Machine Learning
- Deep Learning

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