Rory Hartong-Redden

October 18, 2024 | Boulder, CO | roryhr@gmail.com | linkedin.com/in/rory-hartong-redden | roryhr.com

Summary

Machine Learning Engineer with over 7 years of experience in data science, data engineering, statistical analysis, and software engineering. Core competencies: Python, ML, and statistical analysis, complemented by 3 years of management experience. Throughout my career I've focused on solving the right problem, understanding my data, writing excellent code, and being a good teammate.

Skills

Programming Languages: Python, SQL, R, Shell DevOps: AWS, Docker, CI/CD, Git, GitHub
Data Processing: Postgres, Spark, Hadoop, S3, Airflow
Python Tools: pandas, scikit-learn, Flask, TensorFlow, PyTorch, PySpark, Matplotlib, Jupyter

---

Professional Experience

- **Fast Radius (SyBridge)** — Boulder, CO
  Technical Manager and Senior Data Scientist — *Aug 2021–May 2024*
  - Led a data science team of 3 through growth and scaling efforts, culminating in a successful IPO
  - Ensured API uptime of our revenue-critical service, facilitating $10M in monthly instant quotes
  - Crafted SQL queries to collect data, monitor model accuracy, and answer business questions
  - Trained and deployed a random forest regression model of CNC cycle time for CNC instant quoting, providing the majority of the revenue of our site
- **Fast Radius** — Chicago, IL
  Data Scientist — *Feb 2020–Aug 2021*
  - Tech stack: Python, Flask, Docker, AWS ECS, Datadog
  - As the founding data scientist and machine learning engineer I was responsible for building costing and quoting APIs that were backed by regression models
  - Predicted shipping costs using mixed integer programming to pack boxes for the UPS API
- **runtastic** — Linz, Austria
  Data Engineer — *Oct 2018–Sep 2019*
  - Tech stack: Python, SQL, Spark, Hadoop, Flume, Oozie, Hive
  - Led the design and deployment of a "People You Might Know" feature to bootstrap a social network and improve the retention rate
  - Built an ETL pipeline to anonymize customer data to comply with GDPR regulations
- **Allstate** — Menlo Park, CA
  Research Analyst — *Jul 2016–Sep 2018*
  - Tech stack: Python, pandas, TensorFlow, Spark, Julia, PostGIS, Keras
  - Trained machine learning models and analyzed telematics and crash data to predict risk
  - Co-authored a research paper titled "Real-time Prediction of Intermediate-Horizon Automotive Collision" with the Stanford Intelligent Systems Lab

---

Education

- **University of California, Santa Barbara** — Santa Barbara, CA
  MS Mechanical Engineering — *Dec 2014*
- **University of California, Santa Barbara** — Santa Barbara, CA
  BS Physics & BS Mechanical Engineering — *June 2010*