

# Colin Arndt

☎ 858.281.3748 | ✉ colin.f.arndt@gmail.com | 🔗 linkedin.com/in/colinarndt

## SUMMARY

Quantitative Developer proficient in programming, mathematical modeling, and data analysis, with a track record of developing scalable, maintainable models for financial applications. Demonstrated history of delivering innovative solutions, coupled with effective leadership, mentoring and communication skills.

**Tools:** Python, R, Perl, SQL (MS, Oracle, Hive, Postgres), Spark, Linux, Shell scripting, AWS, Airflow, Snowflake, LaTeX

## PROFESSIONAL EXPERIENCE

### Quantitative Developer

1/2024 – present

Nuveen, a TIAA Company

Charlotte, NC - Hybrid

- Engineered & productionized ESG scoring models using Python & Pandas, including unit testing, following CI/CD processes, production support, and refactoring as needed.
- Collaborated with analysts on model testing & validation, investigating output errors & refining statistical methods.
- Implementing data quality process in ingestion pipeline, to alert team of data errors prior to model runs.
- Worked with manager to revamp team documentation, accelerating new developer onboarding and productivity.

### Cloud Developer

1/2022 – 1/2024

Nuveen, a TIAA Company

Charlotte, NC - Hybrid

- Production support of a mission critical Front Office Equity trading and research platform, comprising Python and Perl utilities in AWS EC2 / Linux.
- Built and productionized a key Leverage Finance report showing debt leverages of portfolio companies, allowing PMs to evaluate holding health on a weekly basis, after working with API vendor to enhance data richness.
- Developed Python data validator for a data warehouse migration from Oracle to Snowflake, capable of efficiently validating millions of rows from daily batch loads. Adopted by multiple teams, saving QA analysts hours per week.
- Presented above applications to 200 associates in Nuveen Tech and consulted on implementation in other teams.
- Migrated legacy Middle Office accounting application to AWS QuickSight for querying archived data, saving over \$25,000 annually in license fees.
- Oversaw mentorship program for new rotational associates and sent regular surveys to assess associate experience.
- Worked with HR to develop a SharePoint site to improve associate onboarding, collaboration and communication.

### IT Consultant

06/2012 – 12/2021

Independent

Eugene, OR

- Data management and backup solutions / Web development & SEO / Process automation through Python

## EDUCATION

### M.S. Data Science and Financial Technology

GPA: 4.0. Coursework in Applied Statistics, Logistic Regression, Econometrics, Financial Modeling, ML & Big Data.

University of London

### B.A. Psychology

GPA: 3.8

Sonoma State University

## PROJECTS

### 🔗 Econometric Analysis and Forecasting Models

Demonstrated a variety of econometric and time-series modeling techniques, with testing of model effectiveness.

### 🔗 Examining US Stock and Bond Returns since 1793 to Assess the 60-40 Portfolio Allocation

Implemented a portfolio simulator based on inflation-adjusted returns over 35-year accumulation periods.