# Nevyn Duarte

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## Summary

Data Scientist with experience in **statistical analysis, machine learning, and quantitative finance**, skilled at delivering **predictive models and analytics tools** for financial and technology firms.

## Education

**University of Colorado Boulder** – *M.S. Data Science – GPA: **3.72*** *2023 – Present*
- Coursework: Deep Learning, Parallel Computing, GLMs, Regression & Classification, Trees & SVMs

**University of Texas at Austin** – *B.S. Mathematics* *2018 – 2022*

## Experience

**M Science (Jefferies)** – *Quantitative Equity Research Associate — Industrials* *Oct. 2022 – Mar. 2023*
- Analyzed company fundamentals, sales transactions, and **alternative datasets** in **SQL/Python**.
- Engineered predictive equity models in **PySpark on Databricks**, trained on **millions of transactions & job postings**.
- Produced **10+ research reports** and automated workflows with **FactSet/REST APIs**, cutting reporting effort by **20%** and reducing cycles from **quarterly to monthly**.

**Goodfill** – *Backend Software Engineer Consultant* *Jul. 2022 – Oct. 2022*
- Delivered investor onboarding in **Python** with FINRA API and deployed backend services in **Go/AWS Lambda/SQS/SNS**; integrated apps with **IB Gateway & TWS APIs** in Docker.

**PerceiveNow** – *Data Analyst* *Jul. 2022 – Oct. 2022*
- Implemented **HuggingFace Natural Language Processing (AI) models** on **AWS Lambda** to process **50k+ research articles** with improved accuracy.
- Streamlined Python REST pipelines in Jupyter, cutting reporting from **minutes to seconds** and reducing costs by **12%**.

**Citco** – *Risk Analysis Intern* *May 2022 – Jul. 2022*
- Automated AIFMD/Form PF reporting for **20+ hedge funds** with VBA/SQL/PySpark and maintained risk models in **Python/SQL** supporting **$10B+ AUM**.

**Advanced Micro Devices (AMD)** – *Yield Analysis Intern* *Jan. 2022 – May 2022*
- Researched a **nearest-neighbor Supervised Machine Learning algorithm** in **Python/SQL** on **100k+ wafer samples** to test anomaly detection feasibility.
- Visualized results with **NextGen EDA, JMP, Jupyter**, enabling engineers to evaluate tradeoffs.
- Designed interactive **Power BI dashboards** adopted by **20+ engineers**, centralizing yield data for faster decisions.

– *Product Development Intern* *Aug. 2021 – Dec. 2021*
- Built real-time **Power BI dashboards** integrating **Snowflake** and scraped data from 12 sources.
- Automated failure alerts with **pandas/SciPy/Power Automate**, enabling management to resolve lab issues in real time.

**BNY Mellon** – *Summer Data Analyst — Liquidity & Margin* *Jun. 2021 – Aug. 2021*
- Created Tableau/Excel/Python dashboards used by **3+ business units** to monitor daily liquidity across **hundreds of accounts**, significantly reducing reconciliation time by 20%.

## Projects

**Robotics ML Research (UT Austin – BWI Project)** *Aug. 2019 – Dec. 2020*
- Trained a feature network for **DeepSORT trajectory tracking** with Google's Triplet Loss, improving accuracy by **8%**.
- Developed an autonomy stack in **Python, C++, ROS** for robotic navigation; recognized with the **UT CNS Undegrad Research Award**.

## Skills

**Programming & Systems**: Python, SQL, R, AWS (Lambda, SQS, SNS), Docker, Git, Go, C++
**Machine Learning**: scikit-learn, PyTorch, TensorFlow, HuggingFace, XGBoost
**Data & Analytics**: PySpark, Databricks, FactSet, Tableau, Power BI, JMP