

TREVOR DALTON

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WORK EXPERIENCE

Data Analytics Engineer | *M Science - Video Games Analytics* *March 2022 - Present*

- Fine-tuned multiple BERT-based classification models using **PyTorch** and **Hugging Face** to automate large-scale data labeling and improve data accuracy with F1-scores above 98%. Deployed models with **MLflow**, streamlining operations and cutting manual effort by 50%
- Derived actionable insights from large-scale video game sales data using **SQL** and **Python**, uncovering user behavior trends to inform client product strategy and marketing decisions
- Construct **PySpark/SQL** ETL pipelines for full raw-to-deliverable processing of large-scale data
- Optimize **AWS EC2** configurations to cut pipeline costs and runtime by as much as 60%
- Developed **Airflow-controlled** pipeline orchestration systems, reducing runtimes by over 20%

Data Engineer | *Northrop Grumman - Advanced Data Analytics* *May 2021 - March 2022*

- Engineered a ~10TB **JavaScript** multi-source ETL pipeline to connect, aggregate & analyze data
- Developed an ontology-driven ETL orchestration tool used by 50+ developers using **React**

Data Engineering Intern | *Northrop Grumman - Advanced Data Analytics* *May 2020 - May 2021*

- Developed cutting-edge machine learning and graph database models for supply chain & maintenance forecasting applications to mitigate risk and reduce lifetime costs of advanced weapons systems

PROJECTS

Datadrip: AI-Driven Financial Analysis Tool

- Led development of an AI-powered tool using **Generative AI** and **Computer Vision**, automating the extraction and summarization of financial reports enhancing accessibility for investors and analysts
- Demonstrated exceptional project management skills by coordinating cross-functional team efforts and successfully meeting project milestones and presentation deliveries within tight deadlines

Candoo AI Support Assistant

- Collaborated to develop a GPT-3.5-based AI pipeline, optimizing tech support operations by automating call summarization and follow-up instructions, resulting in 5-minute time-savings per ticket
- Leveraged expertise in Generative AI to not only develop but also iterate on AI models in response to real user feedback, ensuring the solution met both client and end-user needs effectively

EDUCATION

University of California, Berkeley *May 2024*

Master of Information and Data Science; GPA: 3.97

University of Utah *May 2021*

B.S. Computer Science; GPA: 3.93

CERTIFICATIONS

AWS Certified Cloud Practitioner *2022-2028*

Neo4j Certified Professional *2021*

SKILLS

Skills: Data Science | NLP | Generative AI | Machine Learning | Data Engineering | Data Analytics |

Technologies: PyTorch | TensorFlow | Scikit-learn | Databricks | Snowflake | Airflow | AWS |

Languages: **Python** (preferred) | PySpark | SQL | R |