

# TREVOR DALTON

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## EDUCATION

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University of California, Berkeley

*expected May 2024*

*Master of Information and Data Science; GPA: 4.00*

University of Utah

*May 2021*

*B.S. Computer Science; GPA: 3.93*

*Cum Laude; Dean's List: 6 Semesters*

**Skills:** Data Engineering | Data Analytics | Cloud Computing | Databases | Statistics | Agile Development

**Technologies:** Databricks | Snowflake | AWS | Jupyter | MySQL | Git | Excel | Neo4j | VS Code

**Languages:** **Python** (preferred) | **PySpark** | **SQL** | JavaScript | TypeScript | R | C# | C++

## WORK EXPERIENCE

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**Data Engineer** | *M Science*

*March 2022 - Present*

- 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 dataOps-controlled pipeline orchestration systems, reducing runtimes by over 20%
- Design and implement ETL automated test suites to guarantee accuracy of client deliverables

**Software Engineer** | *Northrop Grumman: Advanced Data Analytics*

*May 2021 - March 2022*

- Engineered a ~1PB **JavaScript** multi-source ETL pipeline to connect, aggregate & analyze data
- Designed frontend interface for a master data pipeline to derive insights from enterprise data
- Developed an ontology-driven ETL orchestration tool used by 50+ developers using **React**
- Built scalable desktop applications using **React**, **Node.js**, **TypeScript**, and **Electron**

**Software Engineer 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
- Delivered valuable insights on large datasets using statistical analysis and **Matplotlib** visualizations

## PROJECTS

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**Bank Document Verifier**

- Developed a collaborative workspace for financial institutions to process loan applications and verify corresponding documents, resulting in significant time/cost savings across verification teams
- Created a parser to extract information from documents using **Regex** and Levenshtein Distances
- Designed 45 Restful API routes to communicate with MongoDB and store data in **AWS S3**
- Implemented 53 unit tests using a **Jest** framework and integrated it into a CI/CD pipeline

**Aye-Aye: Semantic Lexicon Induction**

- Performed advanced text analysis and NLP techniques with **SpaCy** and **Pandas**
- Crafted an ETL Pipeline to clean and process large-scale corpuses using **Python** and **Regex**
- Presented findings to peers alongside visualizations showing the effectiveness of the analysis

## CERTIFICATIONS

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**AWS Certified Cloud Practitioner**

*2022*

**Neo4j Certified Professional**

*2021*

*References available upon request*