TREVOR DALTON

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EDUCATION

University of California, Berkeley *May 2024*
Master of 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

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 & graph database models for supply chain & maintenance forecasting applications to mitigate risk & reduce lifetime costs of advanced weapons systems
- Delivered valuable insights on large datasets using statistical analysis and **MatPlotLib** visualizations

PROJECTS

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

AWS Certified Cloud Practitioner *2022*

Neo4j Certified Professional *2021*

References available upon request