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 | Data Visualization | Databases | Statistics | Agile Development
Technologies: AWS | Jupyter | MySQL | Git | Excel | MongoDB | Neo4j | React | GraphQL | Bash
Languages: **Python** (preferred) | **SQL** (preferred) | JavaScript | TypeScript | R | C# | C++

WORK EXPERIENCE

Software Engineer | *Northrop Grumman: Advanced Data Analytics*   *May 2021 - Present*
- Engineer a ∼1PB **JavaScript** multi-source ETL pipeline to connect, aggregate & analyze data
- Design frontend interface for a master data pipeline to derive insights from enterprise application data
- Develop an Ontology-driven ETL Orchestration tool used by 50+ developers using **React**
- Build 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

Multithreaded ASCII Image Converter
- Developed a **Python/PIL** graphics pipeline for converting bitmaps into approximated ASCII images
- Added multithreading, reducing large-batch processing costs by 50%

CERTIFICATIONS

AWS Certified Cloud Practitioner   *2022*

Neo4j Certified Professional   *2021*

References available upon request