

# Andrew Taylor

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## EDUCATION

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### University of California, Berkeley

*Bachelor of Arts in Data Science, Minor in Computer Science (3.6 GPA)*

Aug. 2023 – June 2027

*Berkeley, CA*

## EXPERIENCE

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### Full-Stack Developer Intern

*Athena (Education Tech Startup)*

May 2025 — Present

*Berkeley, CA*

- Designed and built a dynamic flashcard learning application, using **React** for **interactive user interface development** as well as **Python and SQL** for **backend data processing**.
- Engineered **automated ETL pipelines** to extract lecture transcripts from a database, transform them via **REST API calls to a LLM**, and load the generated flashcard content into a database for immediate use in-app.
- Designed and maintained a **PostgreSQL** database with normalized schemas for data such as flashcard sets, user activity logs, and engagement tracking.

### Undergraduate Student Instructor - Foundations of Data Science

*University of California, Berkeley - College of Computing, Data Science and Society*

Aug. 2024 – Present

*Berkeley, CA*

- Lead weekly 2-hour lab sections of **over 40 students**, providing instruction and guided support on **Python programming, statistics** and other data science topics.
- Design helpful and engaging presentations, drawing on expertise in **A/B testing, linear regression, bootstrapping, hypothesis testing, k-nearest neighbors** and many other foundational techniques.

### Data Science Intern

*Ten Strands*

May 2024 – Sept. 2024

*Berkeley, CA*

- Built a climate risk analysis system using **Python and Jupyter Notebook** to process and analyze datasets for **900+** California school districts, integrating existing long-term projections for heat, wildfire, and sea-level rise.
- Designed interactive **Tableau dashboards** and co-authored a white paper, translating insights into policy recommendations for the Green CA Schools Summit.

### Associate Consultant

*Bay-Area Environmentally Aware Consulting Network*

Sept. 2023 – May. 2024

*Berkeley, CA*

- Applied **NLP** techniques to extract keywords from hundreds of federal documents, then used **OLS regression** to identify factors significantly impacting NEPA compliance timelines for the **Union of Concerned Scientists**.
- Analyzed air quality, demographics, and geographic data for **AC Transit** to address their Clean Corridors Plan, developing strategies for zero-emission bus deployment.

## PROJECTS

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### Automated ESPN Article Database | *Python, SQL, dbt, Snowflake, Apache Airflow*

June 2025 – Ongoing

- Developed an end-to-end **ELT pipeline** to extract live sports articles from ESPN's API with Python, converting nested JSON structures into a maintained **data warehouse**.
- Ingested and stored** semi-structured data into a **Snowflake database**, designing table schemas to support future analytics and logging.
- Built and maintained **dbt transformation models** to convert JSON data into a relational system of datasets.
- Automated **daily data ingestion** and transformation workflows using **Apache Airflow**, ensuring scheduled updates to the warehouse.

### Data Science Table Animation Visualizer | *Python, Manim, Git*

June 2025 – Ongoing

- Developed a Python-based animation tool using Manim to visualize core data science table operations.
- Designed and implemented animations to highlight row, column and cell level transformations with transitions, color coding, and side-by-side comparisons.
- Leveraged UC Berkeley's Data 8 data science package to replicate real-world table manipulations.

## TECHNICAL SKILLS

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**Languages:** Python (pandas, NumPy), SQL (PostgreSQL), Java, C, JavaScript

**Frameworks/Tools:** Apache Airflow, dbt, Snowflake, React, Tableau, PyTorch, scikit-learn

**Developer Tools:** Git, Jupyter, Docker, VS Code, IntelliJ