Owen Dewing

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SUMMARY

Computer Science graduate student with a strong foundation in data systems, analytics, and cloud-based technologies. Experienced in communicating with stakeholders and end users, analyzing and transforming complex data, and managing multiple projects simultaneously.

EDUCATION

Loyola Marymount University   **Los Angeles, CA**
Master of Science, Computer Science   May 2026

Bachelor of Science, Computer Science; minor: Data Science GPA: 3.72   May 2025
University Honors Program, Study Abroad in London (Fall 2023)

RELEVANT COURSEWORK & CERTIFICATIONS

Data Structures & Applications	Probability & Statistics
Algorithms and Analysis	SQL for Data Science Certification
IBM Data Science Certification (In Progress)	AI MakerSpace Certification (In Progress)

PROFESSIONAL EXPERIENCE

Loyola Marymount University   **Los Angeles, CA**
Rains Research Assistant   May 2025 - Present
- Built a multimodal dataset for health research with posts from Reddit, TikTok, and YouTube
- Wrote Python script to scrape, clean, and download 2,000+ Reddit videos across 40+ subreddits, exporting results to CSV and JSON files for analysis
- Conducted sentiment analysis on Reddit posts from 9 subreddits using VADER techniques
- Presented insights via Matplotlib graphs at poster session with faculty and professionals

Air Force Research Laboratory   **Dayton, OH**
Software Development Research Intern   May 2024 - August 2024
- Developed software for 3D CAD model visualization using Javascript and Python
- Enhanced CAD model plugin performance with a 5x speed boost and added functionality
- Implementing feedback from multiple software demos in front of future users

PROJECTS

Globetrotter | *Full Stack AI Travel App | React Native · Python · Flask · OpenAI · MySQL*   **Spring 2025**
- Built an AI-powered travel app with custom OpenAI prompts and structured itinerary storage
- Engineered Flask backend with 7+ REST API routes and a 4-table MySQL database
- Wrote 10+ raw SQL queries to support secure user authentication and dynamic trip generation

Movie Genre Transition Analysis | *Markov Model Pipeline | Python (Pandas) · R*   **Spring 2025**
- Analyzed 100,000+ movie ratings from MovieLens dataset to study genre transition patterns
- Created transition matrix with Pandas using timestamp-sorted rating data across 10 genres
- Exported results to CSV and visualized trends using heatmap and bar graphs in R and Excel

SKILLS

- Programming Languages: Java, R, Python, Swift, JavaScript (React), HTML, CSS, SQL
- Technologies and Tools: Tableau, MySQL, Git, VSCode, Matplotlib, NumPy, Excel, Pandas