

Clay Augustine Cantrell

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Education

UNIVERSITY OF SOUTHERN CALIFORNIA

Los Angeles, CA

BA, Cognitive Science, *magna cum laude*

Dec 2021

Minor in Computer Programming

Relevant Coursework: Object-Oriented Programming in Java, Managing Data in C++, Programming in Python, Physical Computing, User Experience, Full-Stack Web Development, Cognitive Neuroscience

Experience

MIDDLE LLC.

Los Angeles, CA

Data Application Specialist

Aug 2024 – Now

- Built interactive dashboards and data visualizations utilizing Python libraries like Seaborn, Streamlit, and SQLAlchemy.
- Created a script for timestamp-based audio search leveraging WhisperX, OpenAI embeddings, FAISS, and Cohere Rerank.
- Developed a package that employs LLMs to automate qualitative coding tasks, encompassing both inductive and deductive approaches, across diverse textual data categories.
- Designed a pipeline to enhance embedding accuracy by incorporating LLM-generated, query-specific metadata for improved clustering performance.

FREELANCE

Los Angeles, CA

Production Coordinator

2021 – 2024

- Coordinated music video and commercial projects, managing schedules, on-set operations, and logistics from pre-production to wrap.
- Oversaw a team of Production Assistants, delegating tasks effectively to ensure smooth operations.
- Scouted and booked locations; arranged equipment and vehicle rentals and returns; Organized catering and waste disposal services, assisted with expense reports and payroll.

MEASUREMENT AND MULTILEVEL MODELING LAB AT USC

Los Angeles, CA

Research Assistant, Programmer

Dec 2020 – Dec 2021

- Led the development of a user interface and web application for a mathematical program created by Associate Professor PI Hok Cho Lai, designed to perform selection accuracy analysis in scenarios involving partial invariance.

NEW GLOBE

Los Angeles, CA

Intern, Measurement and Evaluation

June 2021– Sep 2021

- Migrated data pipeline scripts from a local setup to Google Colab, ensuring seamless functionality in the cloud.

SOCIAL LEARNING AND CHOICE LAB AT USC

Los Angeles, CA

Research Assistant

Feb 2019– Dec 2020

- Built and distributed surveys using Qualtrics, exploring the relationship between prediction error and empathy.
- Led a workshop on PsychoPy, an open-source Python package used to build behavioral experiments.

Volunteer Work

LOS ANGELES COUNTY DEPARTMENT OF MENTAL HEALTH

Los Angeles, CA

Volunteer

Jan 2023– June 2023

- Contributed 120 volunteer hours with the Full Service Partnership Team, a community health initiative addressing co-occurring substance abuse and mental health disorders. Supported doctors, nurses, and social workers during home and community visits.