

Diego Guzman

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EDUCATION

University of California, Irvine

Irvine, CA

Bachelor of Science in Informatics (emphasis in Human-Computer Interaction)

Sep. 2021 – Expected June 2025

Minor in Information and Computer Sciences

GPA: 3.5

RESEARCH EXPERIENCE

Undergraduate Researcher

June 2023 – Present

University of California, Irvine

Irvine, CA

- Identifying recurring themes and concepts from qualitative data gathered through user studies on a smartwatch using the Reflective Thematic Analysis process
- Utilizing GPT-3.5 to streamline the process of identifying and extracting contextually relevant themes and concepts from user studies
- Designing and developing interactive user interfaces using Streamlit to visualize clusters of **109** different themes in order to highlight contextual and semantic similarities

Undergraduate Research Intern

June 2024 – Aug. 2024

University of California, Berkeley

Berkeley, CA

- Developed a baseline for extracting key values (e.g., dates, case IDs, etc.) from **490** legal documents, totaling **32,849** pages, using GPT-4o-mini
- Implemented a semantic search-based clustering baseline to group legal documents by their contextual similarity, leveraging embeddings and similarity measures by using GPT-4o
- Built user interfaces using React.js, TypeScript, and JavaScript to visually display document analytics from legal documents

TEACHING EXPERIENCE

Learning Assistant

Jan. 2023 – Mar. 2023 & Mar. 2024 – June 2024

University of California, Irvine

Irvine, CA

Course: *Programming with Software Libraries*

- Taught Python programming concepts to a cumulative total of **65** undergraduate students across **2** quarters, most of whom were freshmen and sophomores with little to no prior programming experience
- Assisted undergraduate students with the debugging of their Python programs
- Aided undergraduate students in learning how to use Git

Learning Assistant

Sep. 2023 – Dec. 2023

University of California, Irvine

Irvine, CA

Course: *Programming with Software Libraries Accelerated*

- Taught Python programming concepts to **50** undergraduate students that were primarily third year transfers and freshmen with prior programming experience
- Assisted undergraduate students with the debugging of their Python programs
- Helped undergraduate students transition from their prior programming experiences in languages such as Java and JavaScript to Python

CONFERENCES AND SYMPOSIUMS

“Document Clustering of Police Records: Enhancing Transparency and Accessibility,” University of California, Berkeley Summer Undergraduate Research Fellowship Symposium, Berkeley, CA, August 2024

“Using Large Language Models to Augment Reflective Thematic Analysis for Semi-Structured Interviews,” National Conference on Undergraduate Research, Long Beach, CA, April 2024

“Using Large Language Models to Augment Reflective Thematic Analysis for Semi-Structured Interviews,” University of California’s Leadership Excellence through Advanced Degrees (UCLEADS) Symposium, Berkeley, CA, March 2024

“How Can ChatGPT Be Used As A Tool In Qualitative Analysis,” University of California, Irvine Summer Undergraduate Research Fellowship Symposium, Irvine, CA, August 2023

PROJECTS

Database for UCI Capstone Projects <i>React.js, JavaScript, MongoDB, HTML, CSS</i>	Mar. 2024 – June 2024
<ul style="list-style-type: none">• Designed and implemented the web interfaces, enhancing user experience and engagement• Developed a secure login verification system to ensure only authorized users can access the platform• Fortified database endpoints to protect against unauthorized access and potential security threats	
Spotify Interface Browser <i>Node.js, TypeScript, Angular, HTML, CSS,</i>	Nov. 2023 – Dec. 2023
<ul style="list-style-type: none">• Integrated Spotify’s API with Angular to dynamically display information about albums, songs, and artists• Processed and filtered JSON data to extract specific information from Spotify’s API• Developed a user-friendly search interface that showcases results directly from Spotify’s API	
Runkeeper Tweet Report <i>JavaScript, HTML, CSS</i>	Oct. 2023 – Nov. 2023
<ul style="list-style-type: none">• Analyzed 8,247 tweets mentioning the Runkeeper app and categorized them by activity type• Discovered trends in the data and visualized them using Vega-Lite• Developed a dynamic search table that updates based on keyword filtering of tweets	

AWARDS, GRANTS, AND DISTINCTIONS

University of California Leadership Excellence Through Advanced Degrees Awarded: \$8,000 (in total)	Aug. 2023 & Aug. 2024
2023 Information and Computer Sciences Diversity Conference Scholarship	Aug. 2023
UC Irvine Chancellor’s Excellence Scholarship	Sep. 2021 – June. 2023

TECHNICAL SKILLS

Languages: Python, Java, TypeScript, JavaScript, HTML, CSS, Sass
Frameworks & Environments: React.js, Node.js, Angular, Streamlit, Vega-Lite, Ionic, Java Swing
Database Systems: MongoDB, Firebase, MySQL
Developer Tools: Git, Visual Studio Code, PyCharm, IntelliJ, Eclipse