

# Diego Guzman

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## EDUCATION

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### 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

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### 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

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### 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

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“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

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

AWARDS, GRANTS, AND DISTINCTIONS

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

TECHNICAL SKILLS

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**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, Eclipse