

Joe Bernal

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Education

California State University, Fullerton May 2026
Bachelor's Degree in Computer Science

Citrus College | Glendora, CA June 2024
Associate's Degree in Computer Science

Related Courses

File Structures and Database Systems	Web Front-End Engineering	Software Engineering
Statistics Applied to Natural Sciences	Web Back-End Engineering	Object Oriented Programming

Skills

Data Analysis & Tools: Python, R, SQL, Excel, Google Cloud, GitHub
Programming Languages: Java, C++, JavaScript, (ES5/6), HTML, CSS, Sass
Concepts: Data Structures, Algorithms
Collaboration & Version Control: Git, GitHub, Jupyter Notebooks

Projects

Course Recommendation System April 2023 - Present
Technologies: Python, MySQL, Selenium, HTML

- Developed a terminal-based course recommendation system to generate personalized education plans
- Automated data extraction by web scraping course information using Selenium, ensuring up-to-date academic records.
- Designed and optimized a relational database using MySQL, storing and managing data for 300+ courses
- Implemented query optimizations to filter course selections, demonstrating data processing and database management skills.

Global Travel Database September 2024 - December 2024
Technologies: MySQL, SQL, Relational Database Design, Data Analysis

- Conducted data analytics for travel insights, helping users find destinations based on language, safety, and cost of living
- Developed SQL queries for large-scale data processing, including joins, subqueries, and aggregate functions
- Built an Entity-Relationship (ER) diagram to model relationships between countries, cities, crime data, and pricing

Campus Navigation System October 2024 - November 2024
Technologies: Python, JavaScript, Leaflet.js, Graph Data Structures

- Built a web-based campus navigation tool with an interactive map powered by Leaflet.js
- Implemented BFS, DFS, Dijkstra's Algorithm to compute optimal routes between campus locations
- Integrated error handling for invalid inputs and route selection

Work Experience

City of Hope: Eugene and Ruth Roberts Summer Student Academy | Duarte, CA June 2023 - August 2023
Lead Intern

- Conducted data-driven research on stomach cancer awareness, identifying key knowledge gaps from survey data.
- Cleaned and analyzed clinical study data, ensuring accuracy for research conclusions.
- Presented research findings to over 100 medical professionals and researchers, showcasing data insights and recommendations for patient education.

Hobbies/Interests

Bible Study Leader: Led Bible Study Group for 20+ attendees in both English and Spanish. May 2024 - Present
Salsa Instructor: Taught 10+ students the fundamentals of Cuban and LA-style salsa. April 2024 - Present
Study Abroad Student: Studied Spanish Language for Native Speakers in Barcelona, Spain. February 2024 - May 2024