

Jonathan Ponce

jrami245@calpoly.edu | 831-710-8570 | [linkedin.com](https://www.linkedin.com/in/jrami245)

Education

California Polytechnic State University, San Luis Obispo

Sep. 2022 – Dec. 2024

Bachelor of Science in **Computer Science**

- Courses: Data Structures, Web Development, Database Systems, Software Engineering, Data Science, Operating Systems, Artificial Intelligence

Experience

California Polytechnic State University, San Luis Obispo

Sep. 2024 – Dec. 2024

Teacher's Assistant

San Luis Obispo, CA

- Facilitating lectures and lab sessions, providing one-on-one guidance during office hours, assisting with grading and feedback, and contributing to the development of course materials

Humorfy

Jun. 2024 – Sep. 2024

Mobile Application Developer Intern

San Luis Obispo, CA

- Developed a **React Native** mobile application using **Express** and **Docker**, facilitating build times and ensuring cohesiveness between all ends of the project
- Set up the **MySQL** database connections, enhancing data management and retrieval efficiency

CalMatters

Apr. 2024 – Jun. 2024

Undergraduate Data Science Researcher

San Luis Obispo, CA

- Engineered **Python** scripts to analyze over 34,000 bill discussions among lawmakers, identifying key trends and patterns
- Devised an algorithm to find trends on oil discussions using **natural language processing** and found an 18% probability of oil being discussed in hearings

NASA CaSGC

May 2022 – Aug. 2022

Embedded Systems Programmer

Salinas, CA

- Developed low-level code using **Arduino Software** and **C++** for reading environmental data
- Configured a web server and client, enabling real-time **data visualization** from the Rover

CodeDay

Jun. 2022 – Aug. 2022

Software Engineering Intern

(Remote)

- Created a web framework using JavaScript, facilitating web application and API development
- Engineered **RESTful API** methods in **JavaScript**, optimizing the handling of **HTTP** requests and responses, along with corresponding **unit tests** to ensure **quality assurance**

Projects

Jamba Juice DB | Java, Spring, MySQL

- Designed and implemented relational and document-oriented databases to support retail, payroll, and financial operations
- Developed **SQL** oriented queries to address business information needs, ensuring efficient data retrieval and accurate representation of business rules

NOT-SLO-TODO | MongoDB, Express, React, NodeJS

- Led an **Agile** team to design and develop a to-do list application, facilitating daily task creation
- Engineered a **backend REST API**, ensuring seamless data interaction from front-end to back-end

Technical Skills

Languages: Python, JavaScript, C/C++, Java, SQL, HTML, CSS, JSON

Frameworks/Technologies: React/React Native, MySQL, NoSQL, MongoDB, Spring, JUnit, Jest, Azure, NumPy, Scikit-learn, Pandas, Git/GitHub, Android Studio, Express, NodeJS, JPA, Unix/Linux, Docker