Juan Zavala

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EDUCATION

Bachelor of Science Degree in Computer Science   **Expected Graduation June 2025**
California Polytechnic State University - San Luis Obispo
Awards: *Dean's List - Summer 2023*
Cal Poly Scholar Award - *Low-income, high-achieving, first-generation students award*

SKILLS SUMMARY

- Data Entry, Project Planning, Scheduling, Budgeting, Risk Management
- Programming Languages: Python, SQL, Java, C, C++, ARM Assembly, RISC-V
- Languages: English, Spanish

EXPERIENCE

Cal Poly Information Technology Services   May 2024 - Present
IT Support Lead   *San Luis Obispo, CA*
- Lead weekly student standups to communicate technical updates and streamline workflow processes.
- Support technicians in infrastructure upgrades and resolve hardware/network issues across campus offices.
- Deployed **100+** systems in 3 months, improving employee onboarding efficiency by **20%**.
- Resolved **50+** infrastructure issues, reducing downtime and boosting team productivity by **20%.**

Cal Poly Computer Science Department | AI for Search & Rescue   January 2025- Present
Machine Learning Researcher   *San Luis Obispo, CA*
- Developed and tested ML/DL models (K-means, KNN, SVM) to identify patterns in Search and Rescue datasets, achieving over **80%** accuracy in missing person prediction.
- Cleaned and preprocessed large-scale SAR datasets using Pandas, improving model input quality and performance.

University Housing   June 2023 - Sept 2023
Student Lead   *San Luis Obispo, CA*
- Streamlined dorm move-in by coordinating furniture logistics and leading **30+** volunteers, improving move-in efficiency.

PROJECTS

Tower Detection Using Mask RCNN *w/ CostQuest* | *Python, Machine Learning*
- Collaborated on the data cleaning, preprocessing, and feature engineering pipeline for satellite imagery, improving model training quality and reducing noise by **30%**.
- Deployed a Mask R-CNN model to identify towers, shadows, and buildings with **92% mAP**, enhancing geospatial analysis for infrastructure mapping.

Pawsitive Studying Application | *JavaScript, React Native/Expo, Express, MongoDB, Azure, Team-Dev*
- Led backend dev efforts and analyzed user metrics to drive a **20%** improvement in user focus.
- Conducted data analysis on user engagement metrics to demonstrate a **20%** improvement in focus on assignments, providing actionable insights for feature optimization.

LEADERSHIP & CAMPUS INVOLVEMENT

Latinx Cultural Association - Cal Poly   Sept 2022 – Present
President/Vice President/Treasurer   *San Luis Obispo. CA*
- Direct club operations as the primary liaison, fostering collaboration with **100+** members.
- Secure and manage **$2,000+** in funding, ensuring efficient allocation for **10+** successful campus-wide events.