

Alexis Luevanos
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EDUCATION

California State University, San Bernardino; San Bernardino, CA
Bachelor of Science, Computer Engineering; Minor in Data Science
GPA: 3.7/4.0

Expected May 2025

Relevant Coursework: Machine Learning, Introduction to Artificial Intelligence, Algorithm Analysis, Embedded Systems, Analog Circuit Design & Analysis, Introduction to Computer Engineering, Introduction to Data Science

HONORS AND GRANTS

IEEE DSAA Conference 2024 — Presented research on self-driving scenes.

Edison Scholarship (2024) — Awarded by Edison International.

ExCELS Grant Recipient (2024) — Supported by the National Science Foundation.

HACU 2024 Award — Honored by the Hispanic Association of Colleges and Universities.

Dean's List (Fall 2020, Spring 2021, Fall 2022, Spring 2023, Fall 2023, Spring 2024) — Academic excellence recognition.

Kappa Sigma Service Award (2023) — Recognized for exemplary community leadership and service, including fundraising for Loma Linda Children's Hospital.

RESEARCH EXPERIENCE AND PROFESSIONAL EXPERIENCE

Language Explanation for Self-Driving Scences - California State University, San Bernardino

Undergraduate Researcher; June 2024 – August 2024

Advisors: Dr. Qiuxiao Chen

Collaborated on research integrating natural language processing (NLP) and computer vision to enhance interpretability in autonomous vehicles. Focused on enhancing system interpretability and safety by refining two datasets, Cityscapes and GTA5, through the creation and improvement of detailed natural language captions that contextualize urban driving scenes. Findings were presented at the IEEE DSAA Conference 2024, highlighting advancements in scene comprehension and safety for autonomous systems.

City of Los Angeles - UCR DS-PATH Fellowship

Data Science Fellow and Intern, June 2024 – September 2024

Advisor: Dr. Mariam Salloum and Daniel Millán

Gained industry experience through the UCR DS-PATH Fellowship in partnership with the City of Los Angeles. Contributed to the Earn Learn Play (ELP) project by developing an interactive ArcGIS map showcasing youth programs. Designed and maintained a MySQL-integrated data pipeline for real-time updates, improved data reliability through schema design and cleaning, and enhanced usability by refining filters, column displays, and search functions.

PRESENTATIONS

IEEE DSAA Conference, San Diego, CA, October 6, 2024. Luevanos, A.; Sivakavi, A.K.; Glisson, C.; Chen, Q. "*Language Explanations for Self-Driving Scenes*" (Poster).

UCR DS-PATH Summer Fellowship Symposium, Riverside, CA, August 9, 2024. Luevanos, A.; Srinivasa, S.; Pedaballi, R.; Obasanjo, D. "*Earn Learn Play Project: Youth Development in Los Angeles*" (Poster).

LEADERSHIP/SERVICE

Kappa Sigma Fraternity Upsilon Beta Chapter, California State University, San Bernardino

Philanthropy Chair, November 2022 – December 2023

Directed community service projects, including generating \$17,500 for Loma Linda Children's Hospital. Led fundraising activities and volunteer work to support the chapter's philanthropic mission, making meaningful contributions to the local community. Collaborated with fraternity members to plan and execute successful events, demonstrating strong leadership and organizational skills.

Computer Science and Engineering Club - CSUSB Region 6 IEEE Student Branch

Active Member, Fall 2022 – Present

Participated in workshops and events focused on artificial intelligence, software development, cybersecurity, soldering, and GitHub, fostering technical growth and collaboration. Engaged in networking opportunities with students and professionals to exchange knowledge and ideas. Contributed to the club's mission of creating a fun and educational environment for students across diverse fields within computer science and engineering.

Pinky Swear Club - California State University, San Bernardino

Member, 2021 – 2022

Assisted in coordinating fundraising events and volunteering efforts to support the Pinky Swear Foundation's mission of helping children with cancer and their families. Shadowed team members to learn event planning processes, contributing to efforts that raised awareness and provided financial and emotional support, fostering community engagement.

MEMBERSHIP

Computer Science and Engineering Club, CSUSB | Region 6 IEEE Student Branch (Fall 2022 – Present)

Kappa Sigma Fraternity, CSUSB Chapter (Alumnus, 2023)

IEEE Member (2022 – Present)

ExCELS Scholar, CSUSB (2024 – Present)

Pinky Swear Club (2021 – 2022)

TECHNICAL SKILLS

Computational: Experienced in programming languages, including C++, Python, MySQL, and Verilog. Knowledgeable in tools and hardware such as Arduino, Raspberry Pi, multimeters, oscilloscopes, and soldering equipment. Skilled in software applications, including ArcGIS, AutoCAD, Visual Studio Code, and Microsoft Office Suite. Strong skills in communication, problem-solving, time management, leadership, and teamwork.

LANGUAGES

English (fluent)

Spanish (fluent)