

Alessandro Sisniegas

Mountain View, CA

AlessandroSisniegas@gmail.com | 650-300-9637 | [Portfolio](#) | [linkedin.com/in/AlessandroSisniegas](#)

EDUCATION

California State University, Chico

Chico, California

B.S. Computer Science | GPA 3.6/4.0 Major GPA 4.0/4.0

Expected May 2025

Coursework: Data Structures & Algorithms, Discrete Math, Statistics & Probability, Calculus 1-3, Linear Algebra, Object-Oriented Programming, Object-Oriented Database, Operating Systems, Machine Learning, Networks, Cloud Computing

Activities: Association for Computing Machinery (ACM), Peer Tutoring, Stanford Hackathon (7.5% acceptance rate), Hispanic Scholarship Fund (HSF) Scholar, First Generation Hispanic University Student MESA Engineering Program, Peruvian Club

WORK EXPERIENCE

California State University Chico, Computer Science Department

Chico, California

Data Structures & Algorithms, Teacher & Lab Assistant

Aug 2023 - Present

- Assisted multiple classes with **60+** students each in understanding **CS concepts** in **C++**, boosting performance by **20%**
- Provided support to **125+** students in utilizing **Linux** and **SSH** connections to **access ecc-linux machines**, along with configuring environment variables within the **.zsh** and **bash source file**

Chevron

San Ramon, California

Software Engineer Intern

May 2023 - Aug 2023

- Worked with **API integrations** to **automate** migration of customer data from **SAP** to **Azure**, then into the **Salesforce Cloud** for strategic analysis & account management
- Streamlined** document access and **retrieval** processes, significantly improving operational **efficiency** for both internal
- Worked with **JavaScript ES6**, **HTML/Tailwind CSS**, & **Bootstrap** for frontend, utilized **Java & SQL** for backend

Multiprocessing Muggles

Menlo Park, California

Software Engineer Intern

May 2022 - Aug 2022

- Developed a **MERN** based video calling application to support more than **10k+ users** while maintaining **93%** uptime and external users, **eliminating reliance** on third-party channels

Google - Computer Science Summer Institute (CSSI)

Mountain View, California

Apprenticeship

Jun 2021 - Aug 2021

- Worked and developed **13** individual projects using **JavaScript** concepts as well as product design workshops
- Presented a final collaborative project, including a **live demonstration**, to Google Engineers and community leaders
- Finished a project-based curriculum in **HTML/CSS** and **JavaScript** taught by Google engineers

PROJECTS / RESEARCH

Undergraduate Research: Enhancing Mobile Camera AR Using ORB-SLAM Implementations

Aug 2023 - Nov 2023

- Conducted in-depth research on **Monocular Visual Simultaneous Localization and Mapping**, culminating in a published paper detailing enhancements in Augmented Reality through **ORB-SLAM** for mobile applications
- Authored and presented a [research paper](#) on algorithms for real-time **Feature Extraction** and **Mapping**, significantly advancing **Depth Perception**, **Loop Closure**, and **Relocalization** in mobile monocular camera apps

[Spotttr](#): Parking Lot Detection - Stanford University Hackathon

Dec 2022 - Feb 2023

- Developed in a team of two a **python** app that utilizes advanced **image processing** techniques, such as **adaptive thresholding**, Gaussian blur, and **dilation** to accurately detect parking spot occupancy in real-time
- Utilized the **OpenCV** to optimize the **image processing pipeline** resulting in a significant improvement in the speed up and usability of Spotttr, [Stanford Awarded](#) - "Best Sustainability Project 2023" Runner-up, out of **1700+** participants

SKILLS/AWARDS

Languages: C++, C, Java, Go, Kotlin, Apex, Python, JavaScript, R

Frameworks: HTML/CSS, Bootstrap, React, Node, Express, Peer, SQL, MongoDB, jQuery, Mongoose, REST APIs, Hadoop

Technology: Linux, Google Cloud, Prometheus, Grafana, Kubernetes, Docker, Unity, Android Studio, VM, Git, Shell Scripting

Awards: [HSF Scholar](#), Stanford University Hackathon, [Dean's Honor List](#), University Professor Letters of Recommendation:

[Calculus II](#) - [Intro to Programming](#) - [Programming and Algorithms II](#) - [Data Structures & Algorithms](#)