

# Alessandro Sisniegas

Mountain View, CA

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## 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**, boosting student 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*

- Deployed Customer Insights app, **centralizing** data and **replacing** outdated Word systems; this significantly enhanced strategic **customer analysis** and account management by utilizing **Cloud Computing** for efficient data processing
- Deployed a self-service digital platform for the Safety Data Sheet website to production, creating a solution that **streamlined document retrieval** and **improved operational efficiency** for both internal and external users
- Utilized **Apex & SQL** for the backend, **HTML/CSS & JavaScript** for frontend, and worked on the **Salesforce Cloud**

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

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

[Spottr](#): 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 Spottr, [Stanford Awarded](#) - "Best Sustainability Project 2023" Runner-up, out of **1700+** participants

## SKILLS/AWARDS

**Languages:** C++, C, Java, Kotlin, Apex, Python, JavaScript, MATLAB

**Frameworks:** HTML/CSS, React.js, Node.js, Express.js, Peer.js, 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](#)