Evan Lu

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SUMMARY

I bring a proven track record of innovation, from programming award-winning robots for competitions to developing impactful web solutions for companies like Conectado Inc. I excel at quickly mastering new technologies, breaking down complex problems, and adapting to new challenges. With strong communication skills, creativity, and a meticulous attention to detail, I thrive in collaborative environments and am driven by a passion to continuously learn and deliver exceptional results.

SKILLS

- **Programming:** C++, Java, Kotlin, Git/Github, Python, React JS, MUI, JavaScript, HTML, SQL, x86 ASM, Linux CLI
- **Soft Skills:** Attention to Detail, Critical Thinking, Communication, Collaboration, Adaptability, Problem Solving, Flexibility
- **Languages:** English, Mandarin Chinese

EDUCATION AND AWARDS

University of California, Merced – Merced, CA

Bachelor of Science, Computer Science and Engineering AUGUST 2023 – DECEMBER 2025 (EXPECTED)

- **Cumulative GPA:** 3.84
- **Relevant Education Experience:** Software Engineering, Parallel Computing (C++), Database Systems Implementation (SQL and C++), Algorithm Design and Analysis (C++), Probability and Statistics (Python), Advanced Programming (C++), Linear Algebra, Physics I-II
- **Awards:**
  - Chancellor's Honor List
  - Dean's Honor List

Laney College (Dual Enrollment with ASTI) – Oakland, CA

Associate of Science, Computer Programming SEPTEMBER 2019 – JUNE 2023

- **Weighted GPA:** 4.58
- **Relevant Education Experience:** Object Oriented Programming in C++, Data Structures and Algorithms (Java), Microcomputer Assembly Language (x86 ASM and C++), Calculus I-III
- **Awards:**
  - Academic Honor Student - *Peralta Community College District*
  - Outstanding Student and Lifelong Learner - *Alameda Science and Technology Institute (ASTI)*

EXPERIENCE

Conectado Inc. – Remote

Intern - I2G Program SEPTEMBER 2024 – DECEMBER 2024

- Engineered algorithms to use AI text embeddings to improve user recommendation accuracy by 66.7% (Node.js, Google Gen AI, Firebase).
- Designed a sort-and-filter algorithm and an intuitive user menu with Material UI to enhance user experience. (React JS, Firebase)
- Collaborated with a team of four interns to integrate LinkedIn features, design a user ranking system, and resolve critical bugs.

NeuroLeap Corp – Remote

Intern - Full Stack SEPTEMBER 2024 – DECEMBER 2024

- Devised and integrated solutions for efficient image loading from the SQL database based on user interactions (React JS, TypeScript).
- Implemented try-catch blocks to prevent 100% of potential crashes during image loading, enhancing stability and user experience.
- Redesigned navigation menus to improve user engagement by an estimated 15%.

The Aztechs – Alameda, CA

Lead Programmer SEPTEMBER 2021 – MAY 2023

- Programmed competition-ready robots in Java (2021-22) and Kotlin (2022-23).
- Developed new methods using computer vision, gyros, and encoders for automatic robot aiming, balancing, and positioning.
- Demonstrated adaptability by collaborating across mechanical and electrical teams to ensure seamless robot functionality.
- Mentored two junior programmers who successfully developed subsystems independently, contributing to the team's overall success.

PROJECTS

Wooden Robot Hand

- Built a rock-paper-scissors robot out of laser-cut wood and a Raspberry Pi using OpenCV and MediaPipe APIs.
- Achieved real-time gesture recognition and relatively quick motor response with multi-core parallelization.
- Completed as a high school passion project, demonstrating advanced technical skills and problem-solving.

NASA SpaceApps 2024 – Exosky!

- Local Challenge Winner at UC Merced and Global Nominee (among 940 other teams) for the NASA SpaceApps Challenge.
- Developed a Python/Flask backend to process star data from the Gaia API and simulate the sky view from other planets.
- Created a React frontend integrated with the Aladin Lite star map, allowing users to choose a planet and visualize its sky.