Evan Lu

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SUMMARY

As a second-year Computer Science and Engineering student at UC Merced, I have hands-on experience coding robots for The Aztechs. I excel in learning on the fly, problem solving, and adapting to new challenges. My strong communication skills and creativity are complemented by my attention to detail and self-motivation, driving me to continuously learn and innovate.

EDUCATION

Laney College, Oakland, CA –

Associate of Science - Computer Programming   SEPTEMBER 2019 - JUNE 2023

- Cumulative GPA: 3.95/4.0
- Relevant Education Experience: Object Oriented Programming in C++, Data Structures & Algorithms (Java), Microcomputer Assembly Language (x86 ASM & C++), Calculus I-III, Statistics

University of California, Merced, Merced, CA—

Bachelor of Science - Computer Science & Engineering   AUGUST 2023- CURRENT

- Cumulative GPA: 3.9/4.0
- Relevant Education Experience: Algorithm Design and Analysis (C++), Probability and Statistics (Python), Discrete Mathematics, Linear Algebra, Physics

EXPERIENCE

The Aztechs, Alameda, CA

Lead Programmer   SEPTEMBER 2021 - MAY 2023

- Programmed 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
- Enhanced existing codebases from previous team members
- Collaborated with mechanical and electrical teams
- Mentored a junior team member in programming and Git usage

PROJECTS

Robot Hand

- Created a rock-paper-scissors robot using a Raspberry Pi, code on GitHub
- Integrated MediaPipe, machine learning, and OpenCV in Python, employing multi-core parallelization and low-level motor control
- Completed as a high school passion project, demonstrating advanced technical skills and problem-solving

Timelapse App

- Identified limitations in OBS for creating screen timelapses efficiently
- Developed custom recording software using Python
- Learned a lot about GUI design in python, the MSS library, and juggling image data in RAM

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- Gained foundational knowledge of website structure with HTML and enhanced styling skills using CSS for visually appealing designs.
- Polished problem-solving skills by troubleshooting layout and styling issues, learning to effectively debug and refine website code.
- Learned to create responsive designs to fit both desktop and mobile webpages.

SKILLS & AWARDS

- **Skills:** Always Learning, Attention to Detail, Critical Thinking, Communication, Collaboration, Adaptability, Analysis, Problem Solving, Technical, Self Motivation, Creativity, Public Speaking
- **Programming:** C++, Java, Kotlin, Python, x86 ASM, HTML, Linux CMD line, Javascript, Git
- **Interests:** Robotics, Graphic Design, Video Creation, Arts & Crafts, Language Learning (programming or otherwise), Multiplayer Games
- **Awards:**
  - Chancellor's Honor List & Dean's Honor List - *UC Merced*
  - Academic Honor Student - *Peralta Community College District*
  - Outstanding Student & Lifelong Learner - *Alameda Science and Technology Institute*