

Kobey Pabellan

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Merced, CA

EDUCATION

Graduating 05/2024

Computer Science and Engineering, University of California, Merced

- GPA 3.40
- Dean's Honor list
- Chancellor's Honor List

Relevant Coursework

- Intro to Programming, Discrete Mathematics, Advanced Programming, Data Structures, Computer Organization and Assembly Language, Algorithm Design and Analysis, Intro to Robotics, Intro to Object Oriented Programming

SKILLS

- **Technical Skills:** Python, JavaScript, C/C++, Go, R, MIPS Assembly, Web Development
- **Soft Skills:** Critical thinking, adaptability, natural problem solver, collaboration skills, communication skills
- **Languages:** Fluent English, Fluent Cebuano, Conversational Spanish

PROJECTS

Websocket Server

- Collaborated with a partner to create and run a Node.js websocket server for a purchasing software. The server was used as a messenger between purchasing software and monitors that monitored online retailers' stock of limited items, such as consoles, graphics cards, and toys. The server alerts purchasing software of all connected users once the monitor detects stock availability, resulting in over 200 people connecting and using the server for limited item stock alerts.

Arduino Gate Opener

- Designed and developed a web-based application utilizing an Arduino, allowing all members of a household to remotely access and open a gate. This innovative solution was created to address the limitation of a single remote access point and was successfully implemented, providing convenient and secure access to the household. The project involved programming an Arduino board with a servo motor to simulate button presses on the gate's remote control, resulting in seamless and efficient access control for all household members.

Raspberry Pi Purchasing Software

- Developed software that purchases Raspberry Pis at an online retailer during the chip shortage. My software monitors Raspberry Pi availability of an online retailer and purchases them once availability is detected. Chronological requests are sent to the online retailer to mimic the traffic of a normal user. Other techniques were also used to bypass anti-bot measures. This software has successfully purchased multiple Raspberry Pis within seconds of availability.

Ryze Tello Drone Programming (Solar Energy Association Club at University of California, Merced)

- Collaborated with a team to design, develop, and execute a program for the Ryze Tello drone using the Python programming language. We successfully flew the drone and maintained complete control over its movements.

WORK EXPERIENCE

07/2021 - 08/2021

Sales Advisor, Office Depot - Santa Maria, CA

- Achieved a high customer rewards program penetration rate.
- Operated at the cash register, managed order pickups, restocking, sanitizing, assisted customers, and other general duties.

08/2021 - Present

Freelancing - Online

- Created and maintained numerous bots and programs for retail arbitrage Discord groups. These projects helped the staff and owners of the groups to efficiently manage their businesses, resulting in an improved experience for the members.