

# Kobey Pabellan

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Merced, CA

## EDUCATION

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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

## SKILLS

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- **Technical Skills:** Python, Javascript, C, C++, Golang, HTML, R, MIPS Assembly
- **Soft Skills:** Critical thinking, adaptability, working with others, natural problem solver, communication skills
- **Languages:** Fluent English, Fluent Cebuano, Conversational Spanish

## PROJECTS

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### Websocket Server

- Utilized Node.js and collaborated with a partner to create and run a websocket server. The websocket server was used as a messenger between purchasing software and monitors that monitored online retailer's stock of limited items such as consoles, graphics cards, and toys that sold out within seconds. Once the monitors detect stock availability, it sends the information over to the websocket server, alerting the purchasing software of all connected users to buy the item. Over 200 people connected and trusted my websocket server for limited item stock alerts, allowing users to get their hands on scarce items.

### Arduino Gate Opener

- Created an application that allows everyone in the household to open a gate through a webpage. This project was made because there was only one remote available to open the gate leading to my house. With this application, everyone can open the gate with just a webpage. This project utilized an Arduino which is programmed to click a button on a remote with the help of a servo.

### Raspberry Pi Bot

- Created 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. The software sends in chronological requests to the online retailer to mimic the traffic of a normal user. Several techniques were used to bypass the retailer's anti-bot. This software has successfully checked out Raspberry Pis within seconds.

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

- Wrote and programmed a Ryze Tello drone with a group. We successfully flew the drone and controlled it with the Python programming language.

## WORK EXPERIENCE

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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 Discord groups.
- These groups consisted of companies within the retail arbitrage business and my bots helped the staff and owners of the groups maintain it which in turn gave the members a better experience.