Carlos Barajas

barajas-carlos@outlook.com | (562) 277-0347 | linkedin.com/in/barajas-carlos | cabaraj.github.io/portfolio

EDUCATION

University of California, Irvine

Bachelor of Science in Computer Science and Engineering   *Graduation Date: Jun 2023*

Relevant Courses: Data Structures, Algorithms, Object-Oriented Programming principles, Compilers and Interpreters, Intro to Artificial Intelligence, Machine Learning and Data-Mining, Computer Architecture, Computer Networks, Embedded Software, Digital Computers, IoT Software and Systems

SKILLS

Programming Languages: Python, C++, Java, JavaScript, Prolog, Lisp, Assembly Language (RISC-V)

Software Technologies: HTML, CSS, Bootstrap, Git, Github, Bash, Django, MySQL, AWS, Arduino, Verilog, Solidworks, OpenCV

Soft Skills: Problem-solving, critical thinking, attention to detail, determination, organization, communication

PROJECTS

Little Lemon Restaurant Back-End   *Nov 2023 – Jan 2024*

- Developed the backend with RESTful APIs for a fictional restaurant using Django and its Rest Framework
- Implemented API endpoints for managing employees and customer, menu items and categories, orders, and table reservations
- Implemented MySQL database connectivity for the restaurant system, allowing the program to be scalable and more efficient
- Designed and implemented a secure authentication system using token-based authentication in Django, ensuring data privacy and preventing unauthorized access to sensitive data

Humanoid Robotic Mirroring Arm   *Sep 2022 – Mar 2023*

- Collaborated with a group of 3 to build a robotic arm capable of mimicking real-time human arm movements captured by a webcam using C++ and Python
- Created a Git team repository for code collaboration
- Designed and 3D printed robotic arm prototype using SolidWorks
- Contributed to a Python script to obtain coordinates from a human arm using the MediaPipe framework and created a test scrip with unit tests to verify every function in the script
- Wrote a C++ file for an Arduino Nano to receive information via PySerial communication and send it to a servo driver using Pulse-Width Modulations to control the servo motors

LEADERSHIP EXPERIENCE

Great Mex Grill   Long Beach, CA.

Restaurant Shift Leader and Cashier   *Apr 2020 – Jan 2023*

- Supervised and trained a team of 2-3 employees per 7-hour shift to ensure high-quality customer service and follow safety standards
- Resolved customers' complaints and issues in a timely and professional manner to achieve customer satisfaction
- Provided constructive feedback to employees on their performance and areas of improvement

CERTIFICATIONS

Meta Back-End Developer Professional Certificate | Coursera   *Nov 2023 – Feb 2024*

- Completed a 9-course series on back-end development covering Python, Linux commands, Git, SQL, version control, cloud hosting, APIs, Django framework, and some concepts regarding the Full Stack