

Aaron Ahmadyar

✉ aaron.ahmadyar@gmail.com | ☎ 510.944.6611 | 💻 aahmadyar123 | 📍 Fremont, CA

EDUCATION

California Polytechnic State University

Bachelor of Science in Computer Engineering

San Luis Obispo, CA

Sep. 2020 - Present

- **Relevant Coursework:** Fundamentals of Computer Science, Data Structures, Object-Oriented Programming and Design, Design and Analysis of Algorithms, Software Engineering, Systems Programming, Database Systems, Computer Architecture, Discrete Structures, Computer Design and Assembly Language Programming
- **GPA:** 3.82 as of Fall 2023

PROJECTS

Ai Vision Engine (In Progress)

- Led a team of five engineers to develop an AI imaging engine proficient in sample tube identification and precise x, y, z object positioning for Motiv Space Systems, Inc.

CookMyFridge

- Developed a web application using NodeJS, ExpressJS, ReactJS, and MongoDB to provide users with recipe suggestions from 3rd party API based on input ingredients.
- Implemented JWT based user authentication and authorization for secure website access.
- Applied Scrum methodology to effectively manage the project, facilitating regular progress, collaboration, and continuous improvement.

MIPS Simulator

- Implemented Java code to parse and execute MIPS assembly instructions, including handling branching, function calls, and memory access.
- Developed a 5-stage pipeline to simulate CPU behavior and handle multiple instructions simultaneously, improving program execution speed and complexity.
- Designed and implemented a branch predictor to improve the performance of the MIPS simulator.

Checkers

- Developed a two-player checkers game using Python and the Tkinter library for the graphical user interface.
- Implemented mouse controlled piece movement.

SKILLS

Languages: Python, Java, C, JavaScript, SQL, Bash

Technologies: NodeJS, ReactJS, ExpressJS, MongoDB

Certifications: The Web Developer Bootcamp 2023 (Udemy)

Other Skills: Git/GitHub, Agile/Scrum

WORK EXPERIENCE

California Polytechnic State University

Instructional Student Assistant

San Luis Obispo, CA

Sep. 2023 - Present

- Graded assignments in the Object-Oriented Programming and Design course.
- Assisted students during lab sessions, offering guidance and clarification on programming tasks.