Aaron Ahmadyar

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EDUCATION

California Polytechnic State University   San Luis Obispo, CA
Bachelor of Science in Computer Engineering   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

EXPERIENCE

Software Developer   San Luis Obispo, CA
Hack4Impact Cal Poly   Oct. 2023 - Present

- Collaborated with nonprofit organizations to create software for social change.

Instructional Student Assistant   San Luis Obispo, CA
Cal Poly Computer Science and Software Engineering Department   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.

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.

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