

Aaron Ahmadyar

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EDUCATION

Georgia Institute of Technology

Master of Science in Computer Science

Expected Graduation: May 2026

California Polytechnic State University, San Luis Obispo

Bachelor of Science in Computer Engineering

San Luis Obispo, CA

Sep. 2020 - June 2024

EXPERIENCE

Software Developer

Hack4Impact Cal Poly

Oct. 2023 - June 2024

San Luis Obispo, CA

- Developed a calendar portal for Ecologistics, a non-profit organization, using TypeScript, Next.js, and MongoDB, to centralize event postings, facilitating better communication and coordination among various organizations.
- Utilized Clerk authentication to implement secure authentication and role management, enabling differentiated access levels for admin, approved, and pending users.
- Contributed to both frontend and backend development by writing endpoints and frontend code, enhancing the functionality and user interface of the calendar portal.

Instructional Student Assistant

Cal Poly Computer Science and Software Engineering Department

Sep. 2023 - Dec. 2023

San Luis Obispo, CA

- Graded assignments in the Object-Oriented Programming and Design course.
- Assisted students during lab sessions, offering guidance and clarification on programming tasks.
- Held office hours to provide additional support and assistance to students outside of class time.

PROJECTS

Tutoring Web Application | Django REST Framework, PostgreSQL, ReactJS, AWS

- Developed a tutoring web app using Django REST Framework, PostgreSQL, and ReactJS, hosted on S3 and EC2 with RDS, employing CI/CD pipelines for streamlined deployment.
- Employed the Simple JWT library for seamless JWT authentication, incorporating both refresh and access tokens to ensure secure and efficient user access management.
- Designed feature-rich platform with trial periods, messaging, and goal-setting for enhanced learning interaction.

CookMyFridge | Node.js, Express.js, React, MongoDB

- Developed a web application using Node.js, Express.js, React, and MongoDB to provide users with recipe suggestions from a third-party API based on input ingredients.
- Implemented JWT based user authentication and authorization for secure website access.
- Enabled users to share feedback by rating and commenting on recipes.

Retina | Python, KRIA KV260, YOLOv5

- Developed a system for Space Motiv Systems, Inc., utilizing the KRIA KV260 and YOLOv5 to identify MARS sample tubes.
- Implemented algorithms to calculate the relative x, y, z distance, and angle of orientation of identified tubes.
- Transmitted information to a robotic arm for automatic retrieval based on calculated parameters.

Rcopy | C

- Developed a file transfer application in C, implementing a sliding window protocol over UDP for efficient data transmission.
- Integrated error detection and correction mechanisms to ensure data integrity over unreliable networks.

TECHNICAL SKILLS

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

Technologies: Node.js, Express.js, React, Next.js, Django REST Framework, MongoDB

Other Skills: Git/GitHub, Agile/Scrum