

ARYAN DADNAM

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Education

University of California Santa Cruz

September 2021 - June 2024

Bachelor's in Computer Science

- Coursework: Assembly Language (Intel x86), Data Structures and Algorithms, Computer Systems and C Programming, Computer Architecture, Artificial Intelligence, Web Development, Game Design, Database Systems

Work Experience

UC Davis

June 2022 – September 2022

Research and Data Analysis Intern

- Contributed to the development of a platform for automated emotion recognition using physiological signals.
- Applied AI and machine learning techniques for emotion detection and analysis.
- Collaborated with team members to integrate research findings into practical applications.
- Tools used: Anaconda Navigator, PyTorch.

De Anza College

January 2020 – March 2020

Intern Repair Technician

- Refurbished donated laptops for students in need by reinstalling its operating system and replacing the broken hardware components.

De Anza College

January 2020 – March 2020

Computer Science Tutor

- Assisted students who had difficulty completing their projects on Objected Oriented Python, Java, C and C++ programming.

Projects

Task Manager

June 2024

- Led a team in developing a task management application using Python, JavaScript, CSS, HTML, Py4web, and Vue.js.
- Utilized Py4web as the framework for rapid development of my secure, database-driven web application.
- Implemented Vue.js for frontend development, creating a dynamic and responsive user interface.
- Designed and integrated user features for task creation, assignment, filtering, and editing.

Pac-Man AI

December 2023

- Led a team of 4 developers in developing AI agents for Pac-Man, achieving a top 5 placement in a competitive marathon against other teams
- Implemented Python programming language and advanced AI techniques, including informed state-space search, probabilistic inference, and reinforcement learning, resulting in a 30% improvement in game strategy efficiency.

Zoo Data Management

May 2020

- Led a team of five members to create custom data structures – including Hash Map, Linked List, and Binary Search Tree – tailored for managing animal records at the San Francisco Zoo.
- Successfully managed data for 1600 animals within the project.
- Employed Eclipse IDE for streamlined collaboration and development.

Technical Skills

Languages: Python, C#, C++, C, Java, JavaScript, Shell scripting, SQL

Frontend: HTML, CSS

Cloud & Databases: AWS, PostgreSQL

Web Technologies: BULMA, Vue.js, Py4web, React

Developer Tools: VS Code, GitHub, Android Studio, Eclipse, VirtualBox, Unix, Linux, Anaconda Navigator, UTM, Microsoft Office (including Excel), R

Academic Affiliation

- Women in Computer Science Club at De Anza College
- ACM Club at University of California, Santa Cruz