Bailey Deng

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EDUCATION

University of California, Irvine

Sep 2024 - Jun 2026

B.S. in Computer Science

Irvine, CA

- Programming in C++, Java, and Python Design and Analysis of Algorithms & Data Structures
- Intro to AI, Information Retrieval, Machine Learning & Data Mining

PROFESSIONAL EXPERIENCE

Logistics Chair June 2025 - Present

AI @ UCI

Irvine. CA

• Planned quarterly events/socials and fundraisers for board and general members

ntern Jan 2025 - June 2025

Chinese Assocation @ UCI

Irvine,. CA

- Worked in committees to plan the logistics and details for different events
- Shadowed different board members to gain better understanding of how the organization operates behind the scenes

Volleyball Coach Aug 2021 - May 2022

Alhambra Unified School District

Alhambra, CA

- Evaluated performance of athletes to identify weaknesses and provide feedback for improvement
- Provided guidance and mentorship to athletes to help reach full potential

Web Development Intern

June 2021 - July 2021

HonuSquare

Los Angeles, CA

- Implemented a website using a newer and more modern interface
- · Helped transfer assets and record stock and other data using Google Sheets and QuickBooks

PROJECTS

Web Search Engine

Python, Git

- Wrote an indexer and retrieval component from scratch
- · Capable of handling tens of thousands of Web pages with a query response time under 300 ms
- Incorporates tf-idf scoring, anchor words for target pages and a web interface to improve quality of retrieval and search

AWS DeepRacer

Python

- Trained an autonomous racing policy that drives a simulated car around time-trial tracks
- Placed 38 out of 678 submissions (top 6%) in the 2025 U.S. Open Practice leaderboard

Checkers Al

Python

- Used Monte Carlo Tree Searching to make smart moves against bots in checkers
- 100% win/tie rate against random, poor, and average Al

Pokemon Nuzlocke Discord Bot

Java

- Used the Java Discord API to create custom slash commands that interacts seamlessly with Discord servers
- Functions as a tracker for Pokemon Nuzlockes to record, edit, and delete data entries for Pokemon