

Hayden D'Souza

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EDUCATION

University Of California, Los Angeles

Los Angeles, CA

B.S. Computer Science

Sep 2020 - Sep 2024

- GPA: 3.3
- Coursework: Data Structures, Algorithms, Databases, Web Development, Machine Learning, Networking, Data Science, Operating Systems, Artificial Intelligence, Computer Architecture, Computer Vision, Automata Theory, Graphics, Programming Languages, Natural Language Processing, Statistical Programming

EXPERIENCE

3i Infotech

Hybrid

Software Engineering Intern

Jul 2023 - Sep 2023

- Proposed design of fine-tuned LLM that generates SQL commands from natural language instructions
- Built Python app that translates user prompts to queries and displays the results of query execution against user-provided SQL tables, leveraging a custom LLM (fine-tuned Meta's Llama-7b on 100k examples)

Player's Bounty

Los Angeles, CA

Full Stack Intern

Jun 2023 - Aug 2023

- Enabled distribution of bounty challenge winner cash prizes to 1.2 million different charities by developing robust donation page (in Vue.js and TypeScript), incorporating Every.org's charity API
- Created ad revenue channel by adding Amazon affiliate marketing URLs to 4000+ games on website's catalog, utilizing Node.js scripts to update MongoDB database and Node.js backend
- Refined UI/UX of every webpage and reduced average backend request time by ~10%

UCLA IT Services

Los Angeles, CA

IT Consultant

Dec 2021 - Feb 2024

- Provided technical support to 2500+ students and faculty members in the UCLA community
- Reduced onboarding time for 3 new student hires by 25% by preparing succinct guide documents on resolving common IT issues and conducting mock calls to exemplify optimal customer service practices

UCLA Data Science Union

Los Angeles, CA

Webmaster (2022 - 23), Member (2021 - 2024)

Apr 2021 - Jun 2024

- Improved organization's online presence by collaborating with design team to build club website (in React)
- Developed ARIMA time series model (in Python) that predicts California monthly SO2 emissions data for 2022-27, utilizing scraped emission data from 2014-20 (achieved ~80% accuracy on test set)

PROJECTS

Seatcheck @ UCLA

<http://seatcheck.s3-website-us-west-1.amazonaws.com>

React.js, Node.js, Python, MongoDB, Selenium, BeautifulSoup, AWS (Lambda, S3, API Gateway, SAM, EventBridge)

- Web app that scrapes UCLA enrollment website and notifies students (via email) when a class spot opens up

Duplify

<http://duplify.s3-website-us-west-1.amazonaws.com>

React.js, Node.js, Express.js, Spotify API, AWS S3, Render Cloud

- Web app that allows duplicating another Spotify user's playlist contents to a user's personal playlist

NBA Rank 5

<https://github.com/haydenfd/nba-rank-five>

React.js, Node.js, Express.js, TypeScript, MongoDB NBA API, Firebase, AWS (Lambda, API Gateway, SAM)

- Web app game where users rank five random NBA players in descending order based on an arbitrary statistic

File Sentry

<https://github.com/haydenfd/file-sentry.git>

TypeScript

- Obsidian plugin that adds simple password protection for a user's private files (publication pending approval)

TECHNICAL SKILLS

Languages: JavaScript, Python, TypeScript, C++, SQL, C, R

Libraries & Frameworks: React.js, Node.js, Express.js, FastAPI, Next.js, Vue.js, Selenium, BeautifulSoup

Technologies: MongoDB, Docker, Nginx, Bash, Google Cloud (Compute Engine, Firebase, Colab), Hugging Face

AWS: S3, Lambda, API Gateway, EC2, DynamoDB, EventBridge, SAM