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 $\sim$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 $\sim$80% accuracy on test set)

PROJECTS

Seatcheck @ UCLA   **http://seatcheck.s3-website-us-west-1.amazonaws.com**
React.js, Node.js, Python, MongoDB, Selenium, Beautiful Soup, 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 6   **https://nba-rank-6.netlify.app**
React.js, Node.js, Express.js, TypeScript, MongoDB, NBA API, Netify, AWS EC2, PM2
- Web app game where users rank five random NBA players in descending order based on an arbitrary statistic

Dog Breed Identifier   **https://github.com/haydenfd/dog-breed-identification**
Python, Streamlit, Tensorflow, Conda, Jupyter Notebook
- Streamlit web app that recognizes images of 200 dog breeds, using finetuned Machine Learning model

TECHNICAL SKILLS

Languages: JavaScript, Python, TypeScript, C++, SQL, C, R
Libraries & Frameworks: React.js, Node.js, Express.js, FastAPI, Next.js, Vue.js, Selenium, TensorFlow, PyTorch
Technologies: MongoDB, Docker, Nginx, Google Cloud (Compute Engine, Firebase, Colab), PM2, REST, CMake
AWS: S3, Lambda, API Gateway, EC2, DynamoDB, EventBridge, SAM