Skandda Chandrasekar

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Education

Harvey Mudd College | Major GPA: 3.67/4.0 — Claremont, CA
B.S., Computer Science — August 2021 - May 2025

Relevant Coursework: Data Structures and Program Development (C++), Artificial Intelligence (Python), Neural Networks (Python), Software Engineering (Java), Computer Systems (C), User-Centered Research and Evaluation, Computability and Logic (Prolog), Principles and Practice of CS (Python, Racket), Discrete Math, Linear Algebra

Work Experience

Software Engineer Intern | *Eltropy Inc.* — May - July 2023

- Developed a Python web-scraper to crawl and scrape websites, storing the data in a well-structured tree hierarchy
- Transformed the data to embedding vectors for semantic search to enhance MRC answering models with context
- Used for in-site responsive chat-bots to find the nearest embedding neighbor to a user query using cosine similarity
- Compared 20+ embedding models for best accuracy by conducting trials with train and test sets

Data Structures Course Tutor | *Harvey Mudd College* — January - December 2023

- Tutored and graded 60+ students enrolled in the Data Structures and Program Development class
- Helped students understand data structures such as BSTs, linked lists, hash tables, etc.
- Assisted students to learn advanced features of C++ such as memory management, pointer management, etc.

Intro to CS Course Tutor | *Harvey Mudd College* — August - December 2022

- Tutored and graded 200+ first-year students enrolled in the Introduction to Computer Science class
- Helped students understand programming concepts using Python, Racket, and Assembly code
- Assisted students in understanding circuit design fundamentals and their practical implications

Projects

AI-Generated Cover Art for Spotify Playlists | *Python, OpenAI, Spotify* — December 2023

- Developed a Python app that creates and applies a Spotify playlist cover image based off of the playlist contents
- Utilized the Spotify API to fetch playlist contents and send to GPT-3.5
- Created a DALL-E image using GPT-3.5 provided prompt and uploaded it to the Spotify playlist

Voice-Enabled Chat-Bot | *Python, OpenAI, Jupyter* — October - December 2023

- Created a tutorial to teach users how to create a voice-enabled chat-bot, allowing for user voice input and automatic voice output of response generated by GPT-3.5
- Created a way for users to have reoccurring conversations with the chat-bot where it remembers past questions and answers
- Worked in a team of 3 for a course at Harvey Mudd College

Wave-Based Survival Game | *C#, JavaScript, Unity* — June - July 2019

- Served as head-developer on a team of 4 to develop a game called Cascade Dungeon at Champlain College
- Included 1 custom level design in Unity, custom object art and design, and sound-track

Skills

Programming Languages: Java, Python, C++, HTML, CSS, JavaScript, C
Libraries: React.js, PyTorch, TensorFlow, BeautifulSoup, NumPy, MatplotLib, Pandas, scikit-learn
Tools: Git, GitHub, VSCode, Excel, PowerPoint, Colab, Eclipse

I am an organized, detail-focused leader versatile in object-oriented programming, debugging and troubleshooting strategies, and project management methodologies such as Agile and Scrum. I pride myself in having being both an efficient problem solver and critical thinker. I focus on my frequent communication, organization, growth, and high energy.

Leadership

Harvey Mudd | *Dorm President*
Cincinnati Country Day School | *Student Government Officer*