

Jai Parera

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EDUCATION

University of California, Los Angeles (UCLA)

June 2024

Bachelor of Science - Computer Science – GPA: 3.93 - Dean's List (Winter 2021 – Spring 2022)

Coursework: Data Structures and Algorithms, Algorithms and Complexity, Software Construction Laboratory, Artificial Intelligence, Computer Organization, Operating Systems Principles, Formal Languages and Automata Theory, Computer Systems Architecture, Computer Graphics, Logic of Digital Design, Probability Theory, Discrete Structures

Dhirubhai Ambani International School, Mumbai

June 2020

IB Diploma Program (43/45), IGCSE (10A*), SAT (1570)

TECHNICAL SKILLS

Languages: Python, C/C++, JavaScript, Bash, Lisp, LaTeX, x86 Assembly

Libraries/Frameworks: Git, JIRA, PyTorch, Streamlit, Pandas, React, Node, Express, MongoDB,

EXPERIENCES

Zest AI | Data Science Intern

June 2022 – September 2022

- Owned end-to-end software development and documentation of an internal visualization tool in Python named Birdzai
- Strengthened data monitoring for Data Scientists and improved data access for Business Analytics through Birdzai, allowing Client Engagement Managers to quickly grasp patterns in underlying data to inform client interactions
- Devised class hierarchies as part of a data pipeline from Snowflake to AWS s3 buckets for loading and aggregating hundreds of gigabytes of data into cached files under 10 megabytes with parallel optimizations
- Designed web-app and backend in a modular manner to expand scope of Birdzai with future data or new graphs

Pricewaterhouse Coopers LLP | Technical Consulting Intern

June 2021 – August 2021

- Collaborated with advisory team developing digital assistants for large B2B companies with thousands of customers
- Refined chatbot process flows to suit client vision of addressing common user queries, boosting productivity by 70%
- Crafted hundreds of conversation variations to suit unique customer intents before training and testing these interactions on conversational A.I. powered services Microsoft Azure's LUIS and QnA Maker
- Analyzed dynamic user queries and debugged chatbot backend to ensure deployment for demonstration
- Designed an internal presentation now used as source material in all future client pitch meetings

PROJECTS

Cassava Leaf Classifier | PyTorch

Feb 2022 – Mar 2022

- Built and trained a convolutional neural network to identify leaf diseases achieving a validation accuracy of 83%.

Loom (Hack on the Hill Winner) | Fullstack: React, Express, Node, MongoDB

Feb 2022

- Developed a web-app for collaborative storytelling in under 12 hours while project-leading three other developers
- Created React frontend displaying dynamic content, allowing users to 'Like' and 'Branch' from existing stories
- Integrated frontend with backend API, resulting in reflection of user activity in database and real-time updates

Sudoku Engine | Python, PyGame

Jan 2021 – June 2021

- Constructed a solver based on an efficient backtracking algorithm capable of instantly solving any Sudoku puzzles
- Produced a generator capable of manufacturing puzzles of a specified difficulty level with an intuitive user interface

GiggleMaps (LA Hacks Winner) | Python, Networkx, Google Maps API

Mar 2021

- Managed a four-person multidisciplinary team by efficient workflow organization to see through project development
- Formulated primary algorithms applying a "Distributed Dijkstra's approach" to optimize overall travel time, simulate traffic congestion and realistically compare different navigation route distributions
- Implemented back-end functions responsible for scalability with thousands of users and hundreds of possible routes
- Constructed graphing functionality of project for final demonstration video which ultimately won hackathon

Wurd | C++

Feb 2021 – March 2021

- Built a text editor with undo functionality and efficient real time spell-check with suggestions on top of a trie structure

ACTIVITIES

Upsilon Pi Epsilon at UCLA | Active Member

Mar 2022 – Present

- Tutored undergraduate students in Computer Science for two hours every week.

MentorSEAS at UCLA | Engineering Mentor

Sept 2021 – Present

- Mentored new students, with professional and personal guidance in navigating engineering and life at UCLA