Aditya Tadimeti

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Education

Stanford University | GPA: 3.98 — Stanford, CA

B.S. in Computer Science: Artificial Intelligence Track — *May 2024*

M.S. in Computer Science: Systems Track — *May 2025*

Coursework

Completed

- CS 106B (Data Structures in C++), CS 107 (Systems), CS 142 (Web Applications), CS 12 (Mobile AR)
- Math 51 (Lin. Algebra & Multi. Calculus), CS 103 (Math Foundations of CS), CS 109 (Stats & Probability)

Work Experience

SWE @ Oracle OCI | *Java, Git, Docker, JavaScript* — June 2022 — September 2022

- Virtual Cloud Networking—Control Plane team in Cloud Infrastructure Group. Revamped internal debugging tool used for resolving customer networking issues. Programmatically queried internal key-value storage containing control-plane specs. Updated backend server queries, modified API calls, and updated frontend UI to add search features. Estimated to save dozens of hours per week; code used in production during internship.

NLP @ Ronin | *Python, Databricks, spaCy* — April 2022 – June 2022

- NLP intern at Project Ronin. Built end-to-end pipeline for sectionizing oncology notes. Annotated clinical notes and used transformers, rules-based regex tools, spaCy and medspaCy.

SWE @ Startup | *React, Javascript* — December 2021 – April 2022

- SWE engineer at early stage stealth startup developing a Product Management tool. Worked with React, Node.js, Javascript.

Organizations

CS Section Leader — April 2022 —

- CS 106A (Python, Spring 2022) and CS106B (Fall 2022—). Hold weekly discussions, lead Office Hours, and grade.

NLP Researcher | *Python* — November 2021 – January 2022

Stanford NLP Group

- Used ML libraries in Python to analyze large datasets of social media text data for climate policy communication.

ML Researcher | *R, Python* — March 2019 – June 2021

UC Davis, MIT Sloan

- ML wildfire size prediction via Log. Regression, Decision Tree, Rand. Forest, SVM, Grad Boost., & CNNs
- Obtained 80%+ accuracy & outperformed prior research over wider geographical area

Projects

Photo Sharing App | *JS, React, MongoDB, HTML/CSS* — April 2022 — June 2022

- Built a photo sharing website with the MERN stack. Enables user login with security protocols, photo uploading/commenting/liking/deletion, and privacy features.

Heap Allocator | *C* — March 2022

- Built heap allocator with malloc, realloc, and free functionality. Features include coalescing of freed blocks in O(1) time, in-place reallocation of memory, and a doubly-linked-list implementation.

Neural Network Image Recognition | *Java* — January 2020 – June 2020

- Developed a fully functioning neural network implementing back-propagation from scratch in Java
- Implemented pre-existing C code to train the network on basic image recognition

Mobile App Development | *Swift, Dart, Xcode, Flutter* — November 2018 – Present

- Created a mobile xylophone app with custom audio, vaccine information app for COVID-19, virtual wardrobe app, and flashcard app utilizing active recall and spaced repetition

Technical Skills

Languages: C++, C, Python, Java, R, JavaScript, HTML/CSS, C#, Dart, Swift

Frameworks & Tools: React, Node/Express, Mongo, Git, Docker, Firebase, Pandas, NumPy, Caret, Keras