Aditya Tadimeti

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Education

Stanford University | GPA: 3.9 — Stanford, CA
B.S. in Computer Science: Artificial Intelligence Track — *May 2025*
Minor in Mathematics

Coursework

ML & AI: AI Principles & Techniques, Natural Language Processing
Math & Statistics: Linear Algebra, Matrix Theory, Multivariable Calculus, Probability, Statistical Inference, Info. Theory
Complexity Theory: Data Structures, Algorithms, Mathematical Computing,
Systems & Security: Computer Organization, Operating Systems, Web Applications, Computer Networking

Work Experience

SWE @ Amazon | Java, Python — June 2023 —
- Working in Automated Inventory Planning (AIP) team within Supply Chain Optimization Technologies (SCOT) group.

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 rules-based regex tools, spaCy and medspaCy.

SWE @ Startup | React, Javascript — December 2021 – April 2022
- SWE engineer at startup developing a Product Management tool. Worked with React, Node.js, Javascript.

Organizations

Stanford Graduate School of Business | ML + RL Researcher — April 2023 —
- Using Machine Learning + Reinforcement Learning for data-driven forest management

Stanford NLP Group | NLP Researcher — February 2023 —
- Increasing interpretabilify of LLMs. Researching capability of LLMs to leverage linguistic information for prediction

Stanford CS Department | Section Leader — April 2022 —
- TA for CS 106A (Python) and CS 106B (C++). Received 100% perfect ratings from students.

Stanford NLP Group | NLP Researcher — November 2021 – January 2022
- Used ML libraries in Python to analyze large datasets of social media text data for climate policy communication.

UC Davis, MIT Sloan | ML Researcher — March 2019 – June 2021
- 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.

AI-powered Flashcard Service | JS, React, GPT-3.5 — February 2023
- Levereaged GPT-3.5 to create site that automates flashcard creation based on input educational sources. Supports text and pdf format; 100+ unique users.

Technical Skills

Languages: C++, C, Python, Java, R, JavaScript, HTML/CSS, C#, Dart, Swift
Frameworks & Tools: React, Node/Express, Mongo, Git, Docker, Firebase, PyTorch, Pandas, NumPy, Caret, Keras

Honors and & Awards

Regeneron STS Scholar: One of 300/1760 receiving $2000 in nation's most prestigious science contest (wildfire research)
Research Presentations: 2x First-author presentation at largest international Earth & Space research conference
Earth Science Olympiad: 4th place in US Earth Science Olympiad exam; invited to US national team summer training