Aditya Tadimeti

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Education

Stanford University | GPA: 3.98 — Stanford, CA

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

M.S. in Computer Science: Systems Track — *B.S. + 1*

Coursework

Completed

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

Experience

Computer Science Section Leader — April 2022

- Selected as a Section Leader for Stanford's introductory Computer Science courses (CS 106A and CS106B) through multiple rounds of competitive interview process. Responsibilities include holding weekly discussion sections to review concepts, leading Office Hour sections, and grading assignments and exams. Will teach CS 106A (Python) in the Spring 2022 Quarter and CS106B (C++ Data Structures & Algorithms) in the Fall 2022 Quarter.

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

- SWE engineer at early stage VC-funded startup developing a Product Management tool. Working with React, Node.js, Javascript.

NLP Research Intern | *Python* — November 2021 – January 2022

Stanford NLP Group

- Accepted as the only undergraduate to a research lab in the Natural Language Processing Group
- Used ML libraries in Python to analyze large datasets of social media text data for climate policy communication

Computational Wildfire Research Intern | *R, Python* — March 2019 – June 2021

UC Davis, MIT Sloan

- Predicted wildfire size in R and Python via Logistic Regression, Decision Tree, Random Forest, Support Vector Machine, Gradient Boosted Tree, and Convolutional Neural Network models
- Preprocessed two million wildfire data entries in csv datasets
- Obtained 80%+ accuracy on optimal models, outperforming established research studies
- Summarized findings through heatmaps, bubble maps, interactive graphs, and charts

Projects

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

- Built mobile apps with Swift and Flutter/Dart for cross-platform functionality
- 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

Honors and & Awards

Scholar: Regeneron Science Talent Search

- One of 300/1760 to receive $2,000 for nation's oldest and most prestigious science competition for my wildfire research. Previous winners include Nobel Prize winners, Fields medalists, and Macarthur fellows.

Other Research Presentations

- 2x Finalist for California Science & Engineering Fair
- 2x First-author presentation at largest international Earth & Space research conference

Technical Skills

Languages: C++, C, Python, Java, R, Javascript, C#, Dart, Swift
Frameworks: React, Node.js