Nikash Chhadia

chhadia@stanford.edu | linkedin.com/in/nikashchhadia | github.com/nikashchhadia | nikashchhadia.github.io

Education

Stanford University Stanford, CA

B.S. in Computer Science, B.S. in Mathematics *Expected June 2025*

- **GPA**: 4.12
- **Coursework**: Linear Algebra, Multivariable Calculus, Differential Equations, Applied Matrix Theory, Mathematical Foundations of Computing, Probability for Computer Scientists, Programming Abstractions, Computer Organization and Systems, Operating Systems Principles, Computer Graphics and Imaging, Design and Analysis of Algorithms, Artificial Intelligence Principles and Techniques
- **Organizations**: Association for Computing Machinery, Applied Cyber, Stanford Finance, Club Golf Team

Experience

Engineering Intern June 2021 – Dec. 2021

Stryker Corporation *Wood Dale, IL*

- Designed and implemented a normalized database schema for medical device inventory tracking using MySQL.
- Reconciled the branch's $5 million in inventory, and completed a $1.2 million implant purchase for a hospital.
- Acquired valuable and practical working experience at a Fortune 500 medical technologies company, working with administrative, inventory, delivery, and sales teams to gain industry expertise.

Projects

Citadel | Citadel Securities Summer Invitational Datathon August 2023

- Conducted in-depth data analysis of airline stock performance by examining various influential factors such as flight reliability, jet fuel prices, sociopolitical factors, and natural disasters.
- Leveraged Python within Jupyter Notebooks, employing essential libraries like Numpy, Pandas, and Matplotlib to analyze large datasets.
- Demonstrated proficiency in quantitative analysis and data visualization to deliver actionable recommendations for optimizing investment strategies.

GenAI Bartender July 2023 – Present

- Developing a generative AI model trained on a database of cocktails and ingredients to produce novel drink ideas based on provided ingredients.
- Designing the application using React.js in tandem with the cocktail database API for seamless integration and enhanced user experience.

Heap Allocators March 2023

- Implemented implicit and explicit heap allocators in C with free block coalescing and memory utilization typically greater than 85% for both allocators, showcasing versatile memory management proficiency.
- Executed thorough debugging and testing procedures to prevent memory leaks and minimize fragmentation.

Stanford Machine Learning Lab Feb. 2023 – Present

- Developed Python-based machine learning models to suggest movies to users by analyzing their viewing patterns, with a resulting 80%+ accuracy on average according to testing data.
- Employed Naïve Bayes and logistic regression models, and currently enhancing my machine learning proficiency by constructing a KNN model using Scikit-Learn and a recurrent neural network model using TensorFlow/Keras.

Golf Club Conserver Sep. 2021 – April 2022

- Engineered a system employing positional sensors to identify absent golf clubs from a bag, notifying users via visual and auditory signals when departing without clubs.
- Utilized C++ in conjunction with the LIS3DH accelerometer library, strategically implementing protothreads to optimize performance on a memory-constrained microcontroller.

Skills

Languages: Python • C • C++ • Java • JavaScript • HTML • CSS • SQL • Swift • LaTeX

Libraries: Pandas • NumPy • Matplotlib • TensorFlow • Keras • Scikit-Learn • PyTorch • React

Tools: Git • Unix • Linux • Vim • Jupyter Notebook • AWS • Google Cloud Platform • VS Code