SHEYHAN LALANI

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Education

Northeastern University, Boston, MA *B.S, Computer Science and Business Administration with Fintech Concentration* May 2026

Overall GPA: 3.0/4.0

Relevant Coursework: Object Oriented Design, Financial Accounting, Foundations of Data Science, Fundamentals of Computer Science I & II, Discrete Structures

Skills

Technical Skills: Java, Python, HTML, CSS, Swift, Swift UI, JavaScript
Developer Tools & Platforms: SQL, Oracle SQL, Firebase, Junit, GitHub, VS Code, IntelliJ, Figma, Jupyter Notebook, XCode

Experience

Law School AI - *Artificial Intelligence Intern;* Remote July 2023 - September 2023
• Collaborated directly with the Co-Founder/CEO, initiating and deploying advanced AI and Machine Learning algorithms that revolutionized the educational curriculum, and produced over 1,500 pages of curriculum to be used by law school students.
• Collaborated with legal experts to develop prompts that would include key legal concepts, ensuring that generated scenarios accurately reflected real-world legal situations, and fine-tuned my model's hyperparameters based on the accuracy of the responses.
• Developed and refined AI-driven prompts to simulate complex legal scenarios, enhancing the interactive learning experiences for law students.
• Conducted research for AI-Powered Solutions like Claude for potential applications to elevate educational platform functionality.

PickUp - *Co-founder/Full-Stack Engineer/Lead Marketing Strategist;* San Jose, California January 2021 - September 2022
• Developed and launched an app for athletes to connect, schedule, and play sports through pick-up matches/games during the Covid-19 pandemic.
• Conducted data analysis and leveraged insights derived from audience interviews to optimize. user flow within the application framework.
• Utilized advanced Swift UI and Storyboard methodologies to engineer user interfaces, meticulously aligned with the Figma wireframe blueprints.
• Amassed over 500 downloads in the first month of release and earned over 100k views on social media platforms.

SOA Projects – *Analytics and Information Intern*, Mountain View, California June 2022 - September 2022
• Conducted in-depth security analytics, synthesizing complex data into actionable intelligence, presented my findings to management.
• Spearheaded the orchestration and governance of over 200 employees' digital identities via robust Data Center Management Software.
• Championed a comprehensive, enterprise-wide migration initiative, transitioning legacy systems to an integrated Office 365 environment.
• Authored and disseminated a suite of technical documentation and user guides for Office 365 and Zoom platforms to enhance productivity.

M.A.S.S – *Full-Stack Website Engineer;* Remote June 2021 - August 2022
• Used HTML5, ES6 JavaScript, and advanced CSS3 to architect and execute the development of a sophisticated full-stack web solution.
• Engineered web infrastructure delivering tailored digital support to underserved student populations across remote areas of Pakistan.
• Developed and Integrated secure donation service into the website to which now accounts for 90% of monetary donations.

Projects

Reversi Game – *Java, Java Swing GUI Junit, Intellij.* September 2023 – October 2023
• Developed full-stack game with rule variations, customizable strategies with single, multiplayer, and computer-based gameplay.
• Used abstraction techniques, builder/factory patterns, as well as decorator patterns to develop working model, view, and controller.
• Designed an AI player for users to play against based on algorithms designed for the computer to be harder to play against based on the strategy.

LLM for Text Sentiment Analysis – *Python, Pylab, Jupyter Notebooks Pandas Library, Nest_asyncio* June 2023 – July 2023
• Engineered a Language Model (LLM) for sentiment analysis, leveraging Hugging Face's Transformers and OpenAI's text-DaVinci.
• Cleaned a dataset of 250+ Taylor Swift songs, preprocessing, developing a suitable prompt and analyzing lyrical sentiment with PyTorch.
• Tuned hyperparameters using Jupyter Labs' terminal to enhance model accuracy, documenting results in a comprehensive technical report.
• Utilized Pandas for data manipulation and crafted advanced visualizations to illustrate sentiment trends and patterns.

AI Model for Predicting Music Popularity – *Python, Seaborn, Matplot.lib, Sklearn*
• Developed K-Nearest Neighbors (KNN), Random Forests, Linear Regression Models, and K-Means Clustering to find correlation between a song's internal features of bpm, acoustics, and pace and Spotify's popularity score assigned to every song in our dataset between 1-100.
• Used GridSearchCV to perform Hyperparameter Tuning on models and compared the F1 score of each model to evaluate model performance.
• Deployed Seaborn and Matplot.lib to develop data visualizations like correlation matrixes and linear regression lines to easily evaluate trends.

Interests & Leadership

Host of social justice podcast; all-league varsity football player; music and travel enthusiast; former web design educator for underserved youth.