Nicholas Matias

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EDUCATION

Texas A&M University — College Station, TX
*Bachelor of Science in Computer Science, Minor in Mathematics, **GPA:** 3.736* — *Aug. 2022 – May 2026*

Relevant Coursework: Data Structures and Algorithms; Computer Organization; Programming Languages; Program Design and Concepts; Discrete Structures Computing; Foundations of Software Engineering; Design and Analysis of Algorithms; Computer Systems

Affiliations: SHPE, HSF, ColorStack, Aggie Coding Club, TAMU ColorStack, and AI4ALL

Awards: National Hispanic Scholar, HSF; National Merit Commended Scholar, College Board

Hobbies: basketball, soccer, football, weightlifting, running, calisthenics, chess, and origami

EXPERIENCE

Software Engineering Intern, *Meta* — June 2024 – Present
InterviewMe | TensorFlow, Keras, Python, Pandas, Matplotlib, and Numpy
- Developed a full-stack web application, **InterviewMe**, capable of simulating a real-life behavioral interview through utilizing Whisper3 (speech-to-text), Llama3 (LLM), and Deepgram's text-to-speech API.
- Implemented user-centric features including question up-voting, company tag management, and search/sort functionality, increasing user engagement by 17% and streamlining interview preparation.
- Engineered an in depth feedback system using fine-tuned text-classification models and cosine similarity, evaluating user responses based on the STAR method and question-response relevance, resulting in a 7.34% increase in STAR scores on average.
- Used STAR, relevance, and most frequent words/ phrases metrics to provide question specific feedback via Llama3.

IT Intern, *Lavner Education* — June 2023 – Aug. 2023
- Guided a team of high schoolers through the development of 7+ full stack projects including websites, applications, and various games thus developing the students' technical skills.
- Designed and delivered comprehensive curriculum covering HTML, CSS, Python, C++, Java, and JavaScript, increasing project completion rates and improving code quality.

PROJECTS

AI Economic Trend Predictor | *TensorFlow, Keras, Python, Pandas, Matplotlib, and Numpy*
- Produced a model capable of effectively forecasting and comparing the performance of economic sectors between countries using stock indexes; identified key economic growth drivers.
- Optimized AI model to achieve a mean absolute error of 3.57% in forecasting stock closing prices, enabling more informed investment decisions and risk management strategies.

Bare Necessities | *React, Node.js, Vite, CSS, and Chakra UI*
- Platform incentives users to spend less and make more informed financial decisions through harnessing the power of competition and data visualization.
- Financial dashboard (expenditures visualization and trends) and 10-person leaderboard to motivate lower spending

AI Resume Enhancer | *Python, Numpy, and Pandas*
- Created a model capable of scanning a resume and then matching it to prospective job titles of high quality fit.
- Used tokenization, term frequency, inverse document frequency, and TF-IDF multiplication in model.

LEADERSHIP

President, *TAMU ColorStack (Co-Founder)* — June 2024 – Present
- Helped establish chapter by contributing to setup of website, LinkedIn, constitution, and operations manual.
- Gathered support from 20+ incoming members.

TECHNICAL SKILLS

Languages: Java, Python, C/C++, JavaScript, HTML/CSS, LaTeX
Frameworks: React, Node.js, Express, Vite, Chakra UI, Firebase Auth, Firebase Firestore
Developer Tools: Git, GitHub, VS Code, Visual Studio, PyCharm, Eclipse, Figma, PostgreSQL, Prisma
Libraries: Pandas, NumPy, Matplotlib, TensorFlow, PyTorch