Nicholas Ribeiro

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EDUCATION

Yale University, New Haven, CT   Expected Graduation May 2026
Bachelor of Science, Computer Science & Mathematics | GPA: 3.8
Relevant Coursework: Algorithms, Data Structures and Programming Techniques, Discrete Mathematics, Game Theory, Linear Algebra, Data Analysis, Calculus III, Financial Analyst Training Program, Akuna Capital Options 101
Activities: Yale Computer Society, TEDxYale Marketing & Communications Team, Yale Poker Club

WORK EXPERIENCE

Elevance Health, *Advanced Analytics Intern*, Indianapolis, IN (Remote)   June 2023 – August 2023
- Developed analytical tools using SQL and Tableau for over 11 million Medicaid beneficiaries through Teradata
- Wrote Python automation scripts to facilitate queries for statistical identification of key metrics of improvement
- Performed optimization analysis and presented insights to internal stakeholders to drive data-informed decisions

Yale Student Investment Group, *Equity Analyst*, New Haven, CT   September 2022 – Present
- Actively manage a ~$500,000 portfolio in public equities, specializing in Industrials sector
- Conduct market research and synthesize technical data through the creation of DCFs and other analytical models
- Present weekly stock pitches to Industrials team, give in-depth analytical presentations to investment managers and executive board

StudyBuddy, *Software Development Team Lead*, New Haven, CT   September 2022 – Present
- Developed app to easily determine group availability for meetings through Google Calendar integration, features intelligent meeting location suggestions and superimposed individual availabilities
- Directed 12+ person team, ensuring individual components adhered to backend data structures and schema
- Spearheaded integration effort, merging React/TypeScript components with Firebase to deploy a final product

Milestone C, *Software Intern*, Shelton, CT   June 2022 – August 2022
- Developed Cybersecurity & Cryptography curriculum for nationwide implementation, designed Python coding projects encompassing ciphers, RSA and AES encryption, and password security
- Streamlined internal processes through the creation of a cloud-hosted relational database to house course, pricing, and customer information, enabled automatic purchase orders and accessible queries for course information
- Consultant for IoT curricula encompassing web development, NoSQL databases, and Python for Raspberry Pis

PROJECTS

Amabam   February 2023
- Built gamified website providing a personalized way to learn new hobbies using artificial intelligence
- Assisted in development and integration of convolutional neural networks and OpenCV computer vision library to provide tailored feedback to users when practicing skills such as juggling
- Utilized MongoDB with Flask for backend, React.js for frontend, and MediaPipe for pose recognition

Flappy Bird AI   December 2022 – January 2023
- Created Flappy Bird endless runner game in Python using PyGame library
- Using the NeuroEvolution of Augmenting Topologies (NEAT) evolutionary algorithm, developed an artificial neural network that could perfectly play the game
- Generated statistical data for each evolutionary generation, integrated visualization of AI calculations to the display

Personal Portfolio Website (Dec. 2022 – Jan. 2023)   **Turing Machine Simulator** (Sept. 2022 – Oct. 2022)

SKILLS

- *Computer Languages:* Python, R, Java, C++, SQL, HTML, CSS, JavaScript, C, Racket, TypeScript
- *Tools and Libraries:* React.js, Git, Unix, Jira, Tableau, Firebase, Bootstrap, Three.js, PyGame, Figma, Jupyter
- *Interests:* Running, poker, table tennis, golfing, traveling, learning languages, origami, cardistry, Spikeball