

Nicholas Ribeiro

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EDUCATION

Yale University, New Haven, CT

Expected Graduation May 2026

Bachelor of Science, Computer Science & Mathematics | GPA: 3.67

Relevant Coursework: Data Structures and Programming Techniques, Linear Algebra, Discrete Mathematics, Introduction to Computer Science, Multivariable Calculus, Financial Analyst Training Program

Activities: Yale Computer Society, Yale Student Investment Group, Executive Education Program Intern, Poker Club

Notre Dame High School, West Haven, CT

May 2022

Awards: Valedictorian, ACTFL Seal of Biliteracy, Yale Book Award, RPI Award for Excellence in Math and Science

Independent Research: Investigation of Figurate Numbers and Their Correspondents in Higher Dimensions

WORK EXPERIENCE

TEDxYale, *Marketing & Communications Team*, New Haven, CT

September 2022–Present

- Modernized website through implementation of sleek UX/UI design, created various pages and content consistent with TED marketing guidelines
- Designed and executed advertisement campaigns through the management of various social media platforms
- Brainstormed event themes, assisted in planning and execution of “salons” and TED conferences for 300+ people

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 versatile relational database to house course, pricing, and customer information, enabled automatic purchase orders and accessible queries for course information
- Consultant for Internet of Things (IoT) curricula encompassing mobile app development, cloud-hosted NoSQL databases, HTML/CSS/JavaScript, and Python for Raspberry Pis

PROJECTS

StudyBuddy

September 2022–Present

- Developed app to easily determine group availability for meetings through Google/Apple Calendar integration, features intelligent meeting location suggestions and integrated API services to book popular meeting spaces
- Spearheaded project conceptualization effort, guided 15+ person team through venue suggestion/booking concept
- Implemented new features consistent with product roadmap using React.js and Firebase

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

Turing Machine Simulator

September 2022–October 2022

- Designed abstract computational device in Racket to execute ordered instructions of binary string alterations, mimicking hypothesized machine by Alan Turing
- Created fundamental operation procedures and carefully integrated these procedures together into final product
- Efficacy of 100% using test cases consisting of Turing Machine instruction sets

SKILLS

- *Computer Skills:* Java, Python, React.js, Three.js, R, HTML, CSS, JavaScript, C++, Racket, Unix, C, Firebase
- *Language Skills:* Fluent in English and Spanish, limited proficiency in Portuguese