ANH NGUYEN

anh.nguyen@colby.edu | LinkedIn | GitHub

EDUCATION

Colby College, Waterville, ME   *Bachelor of Arts*, **May 2026**
Majors: Computer Science and Education   **GPA:** 3.9

SKILLS

Proficient: Python, NumPy, Pandas, Matplotlib, Scipy, Java, NodeJS, ReactJS, ExpressJS, MongoDB, Spacy NLP, ScikitLearn, Flask, AWS, SQL, JavaScript, Postgres, Hapi, React Native Expo, SwiftUI, SpriteKit, TypeScript

EXPERIENCE

NearPeer, Software Engineer   **May 2024 - Present**
- Analyzed third-party API usage across the platform, proposed, designed, and implemented patches to production that reduced 40% of API costs
- Redesigned user matching algorithm by implementing a weighted feature-based matching system, replacing static criteria to improve match quality and user satisfaction
- Developed a custom dashboard with automation capabilities, enabling the customer service team to efficiently view and manage customer data, resulting in an 80% increase in productivity
- Fixed bugs and added features on the app and web app's front-end and back-end, enhancing the experience of over 100,000 users

Ubongo, Software Engineer Intern, Part-time   **Jun 2024 - August 2024**
- Identified issues with the organization's current content creation process and created to-be-implemented high-level plans to streamline them using generative AI
- Redesigned the content creation process with an automation tool that automatically digitizes, organizes, and splits the content into parts where users can collaborate and work on each part in multiple different languages

Colby College Computer Science Department, Teaching Assistant   **Aug 2023 - Jun 2024**
- Graded projects, quizzes, and homework for the Data Structures and Algorithms and Data Analysis and Visualization class with over 100 students
- Improved other students' understanding of the material through feedback, review, and lab sessions

Moji Education, Co-founder   **March 2021 - May 2024**
- Founded an education company providing extremely affordable online classes in competitive debate, standardized testing, and essay writing
- Developed education programs in debate, critical thinking, and public speaking for 25+ schools, universities, and businesses (Vietnam Television, IGC Group, Swinburne Vietnam,...)
- Personally mentored over 300 students in SAT Prep, Essay Writing, and Competitive Debate

PROJECTS

Intelligent Test Prep System, *(React, NodeJS, ExpressJS, MongoDB, Flask, ScikitLearn, AWS)*
- A full-stack, full-featured (lessons, desmos, gamification, etc.) intelligent SAT prep system using machine learning to suggest practice modules based on users' performance. With 3000+ users, 5000+ tests taken.
- The web application features all the functionalities of a modern testing application with a graphing calculator, user notes and highlights, daily challenges, a statistics dashboard, and a referral system
- Received 3000 USD in funding as an Independent Study project

LLM-Checkpoint, *(NodeJS, SQLite, VS Code Extension API)*
- A VS Code extension that automatically saves and exports code history to use as context when working with AI coding assistants (e.g., Cursor, Windsurf, etc)
- Automatic code history tracking with smart saving and Git commit detection, view diffs between code versions, export code history to feed into context

Data Structures Learning App, *(SwiftUI)*
- Interactive DSA learning swift app using interactive code walk-throughs and animations
- The app uses drag-and-drop to solve puzzles and visualize the flow of coding problems

HONORS AND AWARDS

- Daybreak Startup competition by University of Science, Vietnam National University Hanoi, 2021 - Top 15
- Headway Awards Social Impacts Projects Category, 2021 - Top 3
- Halloran Lab for Entrepreneurship and Bigelow Labs "Colby Creates" Innovation Day 2024 - Top 1