

# Alan Nguyen

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## EDUCATION

### Northeastern University

May 2027

Candidate for a Bachelor of Science in Computer Science **GPA: 3.6/4.0**

Boston, MA

### Relevant Coursework

Object Oriented Design, Algorithms and Data Structures, Network Fundamentals, Industry Practicum, Computer Systems, Theory of Computation, Discrete Structures, Foundations of Data Science, Programming in C++

## SKILLS

**Languages:** Python, C++, Java, JavaScript, TypeScript, SQL

**Frontend:** React, React Native, NextJS, TanStack Router, Radix UI, HTML5/CSS3

**Backend:** Flask, Fast API, ExpressJS, PostgreSQL, Supabase, MongoDB, Rest APIs

**Tools:** Github/Github Actions, Linux, Windows, macOS, Playwright, Argos

## WORK EXPERIENCE

### **ceed.ai** (Inaugural Cohort - MIT MTC Startup Pass)

September 2025 - Present

*Technical Lead (Founding Engineer)*

Cambridge, MA

- Building **ceed.ai**, a gamified CRM and social platform that unites individuals, non-profits, and brands by transforming one-time donations or volunteer efforts into sustained, purpose-driven communities.
- Secured **two signed Letters of Intent (LOI)** and a **committed pilot** with an early-adopter nonprofit
- Deployed **NextJS** landing page on **Vercel** - working alongside professionals and mentors from MIT and Harvard

### **Pawtograder (Industry Practicum)**

September 2025 - Present

*Full-Stack Developer*

Boston, MA

- Engineered features for **Pawtograder** using **NextJS**, **TypeScript**, and **Supabase**, including real-time polling systems, dynamic survey templates, and **research-backed** group formation, serving **3000+** concurrent users
- Integrated **SurveyJS** components to gather feedback and iteratively improve user experience
- Ensured code reliability using **Playwright** for end-to-end testing and **Argos** for visual regression testing
- Built automated **CI/CD** pipelines with GitHub Actions, integrating deployment validation and health checks

### **Peer Global Inc.**

June 2025 - August 2025

*Software Developer Intern*

Dover, DE

- Architected full-stack AI testing platform using **React**, **Flask**, and **MongoDB**, featuring 3-tier, multi-persona, modular real-time conversation model with for app with over **1.2 million** users
- Designed and deployed dynamic prompt engineering system with context depth scaling and placeholder substitution
- Engineered specialist referral system with 7 domain experts, containing information boundary enforcement logic

## PROJECTS

### **Donor Uplift Optimization** | *Python, XGBoost, Scikit-learn, Pandas, NumPy, Matplotlib*

September 2025

- Developed uplift modeling system for donor fundraising optimization using **T-learners** and **XGBoost** classifiers
- Built profit optimization algorithm, calculating net value per donor contact to maximize campaign ROI
- Currently **1st place** out of **1300 registered** students in operating surplus in the **SAS Hackathon 2025**

### **captialX** | *React Native, Expo, Flask, Supabase, Knot API, Perplexity API* | **Demo** | **Github**

March 2025

- Developed AI-driven mobile app that optimizes credit card usage through processing transaction data and card benefits to maximize rewards and cashback
- Orchestrated multi-modal AI integration, combining **Google Gemini 1.5 Flash** with **Google Cloud Vision API** for advanced credit card recognition and OCR processing
- Built comprehensive payment processing system; **Knot API** for transaction monitoring and dynamic card switching
- Achieved **1st place** (out of 87 teams) in “**Best Use of LLMs**” and “**Best Hack Using Expo**” at **HackPrinceton2025**