Alan Nguyen

☎ (508) 685-4361 | ✉ nguyen.ala@northeastern.edu | 🔗 alandoannguyen | 🌐 alandev05.com

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/C++, Java, JavaScript/TypeScript, SQL
Frontend: React, React Native, NextJS, TanStack Router, Radix UI, HTML/CSS
Backend: Flask, Fast API, ExpressJS, PostgreSQL, Supabase, MongoDB, Rest API
Tools: AWS, Github/Github Actions, Docker, Linux, Windows, macOS, Playwright, Argos, Vercel

WORK EXPERIENCE

Ceed AI   **September 2025 - Present**
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 **2 signed Letters of Intent (LOI) with nonprofits**, incoming **pilot** with **MIT**
- Backed by **MIT Sandbox & MTC Startup Pass (Fall 2025)**

Peer Global Inc.   **June 2025 - August 2025**
Software Developer Intern   *Dover, DE*
- Architected internal AI testing platform with **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

PROJECTS

Discer.io | *NextJS, React, FastAPI, Dedalus SDK, OpenAI API* | Site | Demo | Github | Devpost   **November 2025**
- **1st in 194 teams** (600 hackers) in **YC x HackPrinceton Challenge**, **Best Use of Dedalus** at HackPrincetonF2025
- Engineered **Scratch-like** platform for learning agentic AI workflows with drag-and-drop block coding, enabling users to design complex agent workflows and deploy them into our real-time MMO sandbox without any code
- Integrated **Dedalus SDK** to support multi LLM providers for agent reasoning steps and custom **MCP** tooling

Pawtograder | *NextJS, Supabase, Chakra UI, TypeScript* | Github   **September 2025 - Present**
- 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
- 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

Donor Uplift Optimization | *Python, XGBoost, Scikit-learn, Pandas, NumPy, Matplotlib*   **September 2025**
- **1st place** out of **1300** registered hackers in operating surplus in the SAS Hackathon 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

captialX | *React Native, Expo, Flask, Supabase, Knot API, Perplexity* | Demo | Github | Devpost   **March 2025**
- **1st place** out of **87 teams** in **Best Use of LLMs** and **Best Hack Using Expo** at HackPrincetonS2025
- Developed mobile app, optimizes credit card usage by processing transaction data and card benefits rewards
- Orchestrated multi-modal AI - **Gemini 1.5 Flash** and **Google Cloud Vision** for credit card recognition and **OCR**
- Built payment processing system with **Knot API** for transaction monitoring and dynamic card switching