

Anh Tran

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EDUCATION

University of Cincinnati

Bachelor of Science in Computer Engineering

Availability for Co-op: Fall 2026 / Summer 2027

GPA: 3.71/4.00

Coursework: Data Structures & Algorithms, Object-Oriented Programming, Database Management, Digital Design & Digital Systems, Cybersecurity, Network Analysis, Prompt Engineering, Artificial Intelligence

Affiliated: CodePath, University of Cincinnati Powerlifting Team

TECHNICAL SKILLS

Languages: Go, JavaScript/TypeScript, SQL, Python, C/C++, C#, Java, HTML/CSS, MATLAB

Technologies: Nuxt.js, Vue.js, Next.js, React, Node.js, Bun, Express.js, SpringBoot, Chi, Gin, Hono, AWS, Docker, PostgreSQL, MongoDB, MySQL, REST API, FastAPI, Django, Flask, LangChain/LangGraph, ChromaDB, scikit-learn, NumPy, Tailwind CSS, Socket.IO, PyTest, Git, GitHub, Drizzle, Prisma, Supabase, Redis, CI/CD, Agile/Scrum, Linux

EXPERIENCE

Caphne - Tinder for Study Buddies (caphne.co)

Jan. 2026 - Present

Ho Chi Minh, Vietnam

- Full-stack Software Engineer Fellow*
- Engineered a full-stack study partner discovery platform using **Nuxt 3** and **Node.js**, shipping a preference-based matching algorithm with reverse-match support that scaled to **300+ active users** across FPT University.
 - Implemented a real-time messaging system using **Socket.io** with a persistent **PostgreSQL** schema, browser push notifications, and composable-based notification state with reconnection and disconnection handling.
 - Hardened backend security with **Passport.js**, **JWT**, and **OAuth 2.0** (Google & GitHub) alongside **Typebox** schema validation middleware, resolving cross-origin deployment mismatches across **56 merged pull requests**.

KatanaID - AI-integrated Authentication Toolkit (katanaid.com)

Dec. 2025 - Present

Founding Engineer

Remote

- Co-founded and architected a **production** authentication toolkit in **Go** and **React**, implementing **JWT** identity management, **OAuth 2.0**, rate limiting, and email verification to support **200+ active users**.
- Engineered a multi-layer fraud prevention suite including a **CAPTCHA system**, **browser fingerprinting**, **trust score** engine, and **email fraud detection** with domain pattern matching and prompt injection sanitization.
- Integrated **Google Gemini AI** for avatar generation and deepfake verification, and built a **PostgreSQL-backed** analytics dashboard surfacing real-time usage history and user risk scores across **50+ merged pull requests**.

JSC Bank for Foreign Trade of Vietnam (Vietcombank)

May 2025 - Jul. 2025

Technical Assistant Intern

Hue, Vietnam

- Maintained and troubleshooted **30+** branch PC systems, sustaining **99%** uptime and uninterrupted banking operations.
- Guided **100+** customers **biweekly** in adopting digital banking services, reducing in-branch transactions by **15%**.
- Optimized reporting workflows for senior management, contributing to a **15% improvement in service efficiency**.

PROJECTS

Inyeon (GitHub) | *FastAPI, LangGraph, ChromaDB, scikit-learn, NumPy, Docker*

Jan. 2026 - Present

- Architected an **agentic AI** git assistant featuring **4 specialized agents** that split large diffs into atomic commits using **scikit-learn clustering** across **4 strategies**, achieving under **5s response time** and **2.1s Docker builds**.
- Built **RAG-powered** code analysis with **ChromaDB + Gemini**, developed clustering engine with **NumPy** across **30+ file types**, and shipped interactive CLI with **Typer** supporting **5 commands** with preview and approval.

AnyuDock (GitHub) | *AWS S3, Bun, Hono, TypeScript, GitHub Actions*

Jan. 2026 - Present

- Engineered a **lightweight S3 file storage platform** using **Bun** and **Hono** with **JWT** authentication and presigned URL generation, keeping the entire backend under **150 lines** across only **2 runtime dependencies**.
- Built a **RESTful API** with **4 core endpoints** (upload, list, download, delete) leveraging **Bun's native S3 Client** for direct cloud storage, with a **zero-framework vanilla JS** deploying via automated **GitHub Actions CI/CD**.

FixBuddy - MakeUC (DevPost) | *React, Node.js, Express.js, MongoDB, Gemini API, LangChain*

Nov. 2025

- Built an AI-powered repair assistant in a **2-person team**, implementing a **dual-agent Gemini (LLM) pipeline** that analyzed user-uploaded images and prompts to achieve **85% item identification accuracy**.
- Engineered a **multi-agent reasoning system** combining **Gemini** and **LangChain**, incorporating skill-based adaptation, and step-by-step refinement logic to provide personalized repair guidance across household items.