

Khang Tran

+1 480-937-6165 | khangtran.gnb@gmail.com | <https://www.linkedin.com/in/khang-tran-7828552ba> | <https://khangphutran.com/>

EDUCATION

University of Florida

Expected Graduation: May 2026

Bachelor of Science in Computer Science | Economics Minor

GPA: 3.87 / 4.00

Relevant Coursework: Data Structures and Algorithms, Machine Learning Engineering, Info and Database Systems, Computer Network Fundamentals, Intro Software Engineering, Cyber-Physical System Security, Operating Systems

TECHNICAL SKILLS

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

Frameworks/Libraries: React, ExpressJS, NodeJS, Flask, TailwindCSS, Material UI, DaisyUI, Vite, SASS/SCSS

Databases: MongoDB, PostgreSQL

Security/Auth: JWT, bcrypt

Developer Tools/OS: Git, GitHub, Linux, Docker, GCC, GNU Make

Design/Project Tools: Figma, Jira, Slack, Google Docs

PROJECTS

ProfessionalAIze | Google Gemini API, JavaScript, Manifest V3, React, Material UI

Sep 2025

- Developed an **Chrome Extension** that leverages **Google Gemini AI** to assist users' writing in various tones and styles with a team of 3 in a **24h Hackathon**
- Designed an interactive and responsive popup UI using **React with Vite**, and styling with **Material UI**
- Streamlined **Gemini API** integration by splitting large request into shorter calls with optional user-added context, reducing token usage and improving loading time by **40%**.
- Recognized as 1 of 2 projects for best project demo out of a total of 53 submissions

Twitter | JavaScript, React, NodeJS, ExpressJS, MongoDB, TailwindCSS, JWT

June 2025

- Built a full-stack Twitter clone from scratch using the **MERN** techstack
- Engineered user authentication, including registration/login using **JWT** and **bcrypt**.
- Implemented core features: posting, liking, following, notifications, and **CRUD** operations for posts.
- Designed a **RESTful API** for frontend-backend communication and integrated with **MongoDB** for persistent storage of users, posts, and relationships.

Image Classification AI Model | Python, PyTorch

Apr 2025

- Collaborated in a team of 5 to develop an **CNN** model that can perform object classification on images.
- Co-Engineered model architecture with **Python** and **PyTorch**, optimizing convolution layers, performing data augmentation and tuning hyperparameters to improve overfitting and model evaluation accuracy by **15%**.
- Implemented per class model evaluation for better analysis of the AI accuracy on the dataset.

VocalSphere | Python, Flask, JavaScript, React, MongoDB, RESTful API

Dec 2024

- Lead a team of four in designing and developing **Vocal Sphere**, an audio-first social media platform, adhering to AGILE SCRUM methodologies to ensure efficient project delivery.
- Handled account creation (using **JWT Authentication**) and the posting feature, handling full-stack responsibilities with a **Python Flask backend**, **React JavaScript frontend**, and **MongoDB database**.
- Developed a **RESTful API** with **Flask** for seamless communication between backend and frontend
- Facilitated SCRUM sprints and coordinated tasks among team members with **Jira** to achieve iterative development milestones.

CLUB INVOLVEMENT

Backend Software Engineer (UF SASE)

Sep 2025 - Present

- Recently selected to join the backend team, maintaining and extending the SASE website to support club operations.

Social Chair - Board Officer (UF VISA)

Sep 2025 - Present

- Coordinate and organize events for VISA, promoting awareness and appreciation of the Vietnamese culture at UF