

# Phu Anh Khang Le

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## EDUCATION

**BSc. in Computer Science**, University of South Florida

**Tampa, FL**

- GPA: 4.0/4.0
- Awards and Affiliations: Dean's List, Bulls L.E.A.D Leadership Program, Judy Genshaft Honors College

Aug 2022 – Apr 2025

## SKILLS

**Programming Languages:** Python, JavaScript, TypeScript, C++, C#, C, HTML, CSS, AWS, Google Cloud

**Web Frameworks:** React, React Native, Next, Vite, Svelte, Three.js, GSAP, GraphQL, Express.js

**Data Processing and Machine Learning:** Camelot, Pandas, NumPy, PyTorch, Scikit Learn, Tensorflow, Keras

**Systems:** Linux, Fedora, Red Hat Enterprise, Debian, Arch

## EXPERIENCE

**Software Developer** | *Bulls Racing SAE*

**Tampa, January 2024 - Present**

- Develop hardware drivers for serial devices from NovAtel, CAN, and Ouster LIDAR using C++ and Boost ASIO, establishing core communication between vehicle hardware and software.
- Create a specialized math library in C++, enhancing channel computation speeds by 230% and conducted rigorous code reviews to ensure memory safety and optimized performance.
- Integrate computer vision, currently able to control vehicle velocity through the command line.

**Teaching Assistant** | *Foundations of Engineering - University of South Florida*

**Tampa, August 2023 – Present**

- Innovate an attendance tool using Python, Camelot, and Pandas, cutting time taken for attendance processing by 90%.
- Assist students with Arduino hardware and robotics programming at the Design for X Lab, enhancing learning experiences.

**Full-stack Developer** | *Augmented Reality Integration Solutions (ARIS)*

**Remote, June 2023 – Present**

- Lead a team of 5 to construct 3D editor from scratch with Three.js, boosting responsiveness by 60% by using local storage caching.
- Establish a robust backend using MongoDB and DigitalOcean Spaces, with a secure authentication system using NextAuth and JWT.
- Develop the MVP within 4 months to present to a conference board of 1000+ experts, received first place for funding.
- Research SLAM for customized tooling, laying foundational work for future image-tracking development.

**Front-end Intern** | *VSPACE Education*

**Vietnam, June – December 2021**

- Overhauled the marketing website by designing a clean, modern UI using TypeScript, NextJS, and Chakra UI, resulting in enhanced user engagement and expanded the company's outreach by 5,000 people.
- Introduced animations using Framer Motion, ensuring optimal mobile responsiveness to enrich user experience.

## PROJECTS

**the last data structures visualizer you will ever need**

**Tampa, January 2024**

- Utilized react-force graph for visualizing a variety of data structures, significantly enhancing learning experiences with interactive visuals.
- Integrated animations of pathfinding algorithms, including Dijkstra's and A\*, to provide engaging visualizations of traversal techniques, and currently working on maze-generation for automated visualizations.
- Boosted rendering efficiency by over 120% through optimization techniques such as caching and batch updates.

**LegAI**

**Orlando, October 2023**

- Collaborated with 4 developers to create tool for legal document processing using a semantic search AI with Q&A capabilities.
- Built backend infrastructure with Fast API, implemented Google Cloud Vision and Document AI to process text and image-based PDFs, and created pipeline for AI text processing with Ada-002 using LangChain and OpenAI embeddings.
- Achieved a 90% improvement in processing speed by employing a dual database system with PostgreSQL and ChromaDB.

## HONORS & AWARDS

**Top 3 teams** in International Collegiate Programming Contest Southeast Regionals

**2024**

**Runner-up** in Morgan & Morgan AI Challenge at KnightHacks 2023

**2023**

**First place** in USF Society of Competitive Programmers Programming Challenge at Hackabull

**2023**