Khang Le

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Education

University of South Florida Tampa, FL

- BS in Computer Science, Minor in Economics | **GPA 4.0/4.0** Aug 2022 — May 2026
- Coursework: Computer Organization **(TA)** and Architecture, Data Structures, Algorithms, Operating Systems, Compilers, Parallel Systems, Cryptographic Hardware

Skills

Languages: Python, JavaScript, TypeScript, C++, C#, C, Java, Golang, CUDA
Web: React, Angular, Svelte, Node.js, FastAPI, GraphQL, Express.js, MongoDB, Postgres, MySQL
Machine Learning: Tensorflow, Keras, PyTorch, Pandas, NumPy, Scikit Learn

Experience

Software Development Engineer Intern | *Amazon Inc.* Austin, TX, May — Aug 2025

- Developing a massively parallel image processing service to generate zooming image pyramids for fulfillment center floor plans using **quad-trees, Java, and AWS Cloud.**

AI Intern | *Kyanon Digital* Vietnam, May — Aug 2024

- Improved customer profiling accuracy **by 22%** by applying embedding models on transaction data, enabling more granular segmentation and driving a **15% increase in campaign ROI**.
- Designed PoC to solve cold-start and knowledge transfer challenges in recommender systems, increasing baseline XGBoost accuracy **by 10%**, for improved targeting in marketing campaigns.
- Proposed and implemented a tabular learning framework with **PyTorch, HuggingFace**, and Docker.

Software Lead | *USF Design for X Lab* Tampa, FL, Jan 2024 — Present

- Architected smart screen solution with JavaScript on Raspberry Pi and management dashboard using Svelte, driving **200% increase** in event attendance, **saving $3K** in set-up costs.
- Deployed in-house **Node + Express** server cluster, with electrical relay network and **React UI** for remote 3D printer management to **reduce equipment misuse by 50%.**

Autonomous Software Lab Assistant | *USF RANCS Lab* Tampa, FL, Oct 2023 — Present

- Migrated full network library from Python to C++ for Cohda on-board units, **reducing data transmission latency by 20%** and supporting custom packet delivery for high-speed communication via UDP.
- Developed data logging framework via GNSS devices, delivering high-accuracy data (**sub-10 cm precision**) for the FDOT autonomous bus project.

Leadership

Data Acquisition Lead | *Bulls Racing FSAE* Tampa, FL, Jan 2024 — Present

- Secured **$1,000 sponsorship** for LabJack data acquisition equipment, enabling real-time, wireless telemetry.
- Developed C++ custom high-performance computing math library, **boosting processing speed by 230%**.

Projects

the last data structures visualizer you will ever need | *React, Pathfinding* Jan 2024

- Developed interactive visualizations for graphs, trees, and pathfinding algorithms using **force graphs** and **React**.
- Cut rendering time for grid-based animations for Dijkstra's and A* by **120%**, using memoization and batch updates (+20% average frames per second, -30ms average time to render).

LegAI (KnightHacks AI Challenge 2nd Winner) | *NextJS, FastAPI, Python, PostgreSQL* Oct 2023

- Optimized embedding storage in PostgreSQL using ChromaDB references, reducing time-to-generate **from 30s to 5s**.
- Developed a scalable Fast API backend to support high-volume image and text processing with **Ada-002 text embeddings** and **LangChain**, resulting in **15% accuracy increase** in content identification.