

Tinh-Phong Nguyen

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SKILLS

Languages: JavaScript, TypeScript, Python, Java, C, SQL, HTML/CSS, RISC-V Assembly, Racket, Golang

Libraries/Frameworks: React, Node.js, Electron.js, Express.js, Next.js, Angular, Spring, Unislosh, Tensorflow

Databases: MySQL, PostgreSQL, MongoDB, Prisma

DevOps: Docker, AWS, Nginx, Web Sockets

Tools & Others: Git, Postman, SPHERE Research Infrastructure, REST API

EXPERIENCE

SPHERE Software Engineering Intern

June. 2025 – Present

USC ISI SPHERE

Marina Del Ray, CA

- Developed a full-stack calendar and heatmap system with React, PatternFly, and TypeScript, saving teams 10+ hours of manual scheduling per week and supporting 200+ monthly reservations
- Modernized the Distributed Experiments Workflow (DEW) portal by migrating authentication to SPHERE's internal account system, refactoring the Angular + TypeScript frontend, and containerizing the Flask backend with Docker to ensure stable API operations and full-stack reliability
- Integrated the DEW portal with the SPHERE Research Infrastructure, centralizing experiment creation, reservations, and XDC management into a unified platform to improve research data traceability for researchers

Software Engineering Intern

Jan 2026 – Present

Zoetic Motion

San Luis Obispo, CA

- Implemented a scalable CRM and outreach backend with Supabase (PostgreSQL) and a React frontend, enabling pipeline tracking for 100+ schools and supporting early customer acquisition workflows
- Delivered coach-facing backend functionality powering team dashboards, messaging, and onboarding in a Node.js + Supabase stack, supporting coach beta usage and informing subscription monetization

Full-stack Software Engineering Intern

June 2024 – May. 2025

4yourbusiness INC.

Pleasanton, CA

- Deployed a scalable inventory management platform with React, Electron, and MySQL that automated product data updates, eliminating manual processes and saving staff 2+ hours per day
- Updated inventory infrastructure by transferring 10,000+ product records from Microsoft Access to MySQL, employing validation and de-duplication strategies to strengthen data accuracy and long-term scalability
- Engineered the company's primary marketing website using Next.js, React, TypeScript, and Tailwind CSS, implementing responsive UI design and integrated email workflows to improve customer engagement

PROJECTS

HorseGPT

Feb. 2025 – June 2025

AI Horse Race Predictor

San Luis Obispo, CA

- Trained a Gemma 3 model with LoRA fine-tuning on 200,000+ horse races (1990–2020) using Torch, Unislosh, and Pandas, reaching 60% prediction accuracy which outperforms baseline guessing rates
- Leveraged Cal Poly's Unix server GPUs to train and run our LLMs in GGUF format, cutting training time by 40% and reducing inference latency to sub-second prompt responses

Aery

Sep. 2024 - Dec. 2024

Collaborative Motivation Streaks App

San Luis Obispo, CA

- Built a full-stack social media app (TypeScript, React, Next.js, Docker, PostgreSQL), enabling students to track and share daily streaks and habits within friend groups
- Integrated a secure authentication system using Zod for input validation, NextAuth.js for session management, and custom middleware to enhance security

EDUCATION

California Polytechnic State University

San Luis Obispo, CA

Bachelor of Science in Computer Science — GPA: 3.8

June 2026

- Relevant Coursework: Operating Systems; Artificial Intelligence; Theory of Computation; Distributed Systems, Networks and Parallel Computing; Computer Security; Databases; Programming Languages; Software Engineering; Algorithms; Data Structures; Computer Organizations; Object-Oriented Programming; Game Design