

Thanh Dat Vu

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EDUCATION

California State University of San Marcos

Expected graduation: Spring 2026

Major: Software Engineer | **Minor:** Computer Science

GPA: 3.96 | Dean's List

Coursework: Software Structures, Software Requirements and Testing, Data Structures and Algorithms, Programming Languages, Database Systems, Linear Algebra, Discrete Mathematics, Calculus, Physics, Statistics,...

TECHNICAL SKILLS

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

Certificates: CodePath - Technical Interview Prep - Intro to Web Development, AWS Cloud Practitioner Certification, Thermo Fisher - Emerging Leader

Technologies: Github, MySQL, AWS, VSCode, Pygame, React, Nodejs, Nextjs, Terraform, Docker, PostgreSQL

PROFESSIONAL EXPERIENCES

Cloud Engineering Internship, Chakra Techworks

06/10/2024 - 08/20/2024

- Engineered cloud infrastructure using Terraform, integrating AWS to support web and mobile applications.
- Developed backend APIs with Golang, streamlining data processing with PostgreSQL and AWS interactions.
- Implemented key infrastructure components, following Infrastructure as Code practices.
- Authored technical documentation and onboarding materials to accelerate knowledge transfer.

Online Learning Platform Developer Internship, The Prep Institute LLC

06/12/2024 - 07/29/2024

- Designed and developed an online learning platform using Kajabi to aid small nonprofits.
- Transitioned curricula and developed multimedia content, including videos for online courses.
- Assisted in identifying online markets and setting competitive pricing strategies.

Software Engineer Fellowship, HeadStarter AI

07/22/2024 - 08/20/2024

- Developed AI apps and APIs with NextJS, OpenAI, Pinecone, and StripeAPI.
- Designed and deployed projects with a team of 4 fellows using MVC patterns.
- Received mentorship from Amazon, Bloomberg, and Capital One in Agile, CI/CD, Git, and microservices.

STEM Success Center, CS Tutor

04/01/2023 - Present

- Provided comprehensive in-person tutoring for CS 111, CS 211, and CS 311 courses, emphasizing problem-solving and effective communication of data structures and algorithms.
- Provided support with debugging and foundational computer science knowledge.

TECHNICAL PROJECTS

TrekMate (React - Tailwind CSS)

09/10/2024 - 09/20/2024

- Designed and developed a dynamic travel app for Vietnam tourism, featuring a visually appealing hero section, place exploration, travel guide, and mobile app call-to-action, ensuring seamless user experience.

Nike Landing Page (React - Tailwind CSS)

08/29/2024 - 09/05/2024

- Implemented dynamic product displays and interactive features in a Nike clone page, showcasing proficiency in React for front-end development.

Project Nostalgia (Python)

03/20/2024 - 05/28/2024

- Developed a Gameboy project using Pygame, featuring Flappy Bird, Space Invader, and Tetris running at 60 fps with a game menu, employed gravity simulation, level mapping, collision detection, user inputs, and OOP.

LEADERSHIP EXPERIENCES

Google Developer Student Club - Founder and President of Leet Code Club

11/27/2023 - Present

- Lead weekly sessions solving Leet Code in Python to strengthen data structure and algorithm skills.
- Organized monthly on-campus coding competitions for CS students, with prizes to foster collaboration and competitive learning.

"Intro to Data Structures" Embedded Lab Tutor

08/26/2024 - 12/15/2024

- Facilitated lab sessions with the instructor by assisting students in debugging code, optimizing algorithms, and improving their problem-solving approaches in C++.

"Intro to C++" Embedded Lecture Tutor

08/29/2023 - 12/15/2023

- Collaborated directly with the lecturer to strengthen student understanding of C++ core programming concepts through coding assistance and led workshops to improve exam readiness.