

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: AWS Cloud Practitioner, Software Structures, Software Requirements and Testing, Data Structures and Algorithms, Database Systems, Linear Algebra, Discrete Mathematics, Calculus, Statistics.

TECHNICAL SKILLS

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

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

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

PROFESSIONAL EXPERIENCES

Cloud Engineering Internship, Chakra Techworks

06//2024 - 08//2024

- Engineered AWS infrastructure with **Terraform**, provisioning **EC2**, **RDS**, and **S3** for web applications.
- Developed **Golang** APIs to connect to **RDS**, and **S3** using **PostgreSQL** for data management
- Implemented **Infrastructure as Code (IaC)**, improving deployment efficiency by 30%
- Created onboarding documentation, enhancing knowledge transfer and team onboarding by 40%.

Online Learning Platform Developer Internship, The Prep Institute LLC

06/2024 - 07/2024

- Designed and developed an online learning platform using **Kajabi** to aid small nonprofits.
- Transitioned curricula and developed videos for online courses to enhance business operations.
- Identified online markets and established competitive pricing strategies to boost enrollment and revenue.

Software Engineer Fellowship, HeadStarter AI

07/2024 - 08/2024

- Implemented an AI Course Generator With **NextJs**, **React**, **TailwindCss**, **Gemini Api**, **Clerk**, and **Drizzle**
- Designed and deployed projects with a team using MVC patterns, enhancing project organization.
- Received mentorship from Amazon, Bloomberg, and Capital One in Agile, CI/CD, Git, and microservices.

STEM Success Center, Computer Science Tutor

04//2023 - Present

- Delivered in-person tutoring for introductory and advanced computer science courses, focusing on C++ data structures, algorithms, problem-solving, and debugging skills to improve students' academic performance.

"Intro to Data Structures" Embedded Lab Tutor

08/2024 - 12/2024

- 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

08/2023 - 12/2023

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

TECHNICAL PROJECTS

TrekMate (React - Tailwind CSS)

09/2024 - 09/2024

- Created a responsive travel landing page 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)

08/2024 - 09/2024

- Implemented a mobile-responsive website with **Vite**, featuring a dynamic hero section, product showcases, custom theming, and advanced Tailwind techniques for animations and interactivity.

Project Nostalgia (Python)

03/2024 - 05/2024

- 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.

FortressFin (Java)

02/2024 - 04/2024

- Constructed a comprehensive banking application with secure **MySQL** integration, supporting user authentication, fund transfers, balance management, transaction history, and a user-friendly GUI.

LEADERSHIP EXPERIENCES

Founder and President of Leet Code Club

11/2023 - Present

- Lead weekly sessions solving Leet Code in **Python** to strengthen students' data structure and algorithm skills.
- Organized monthly on-campus coding competitions, to foster networking and competitive learning.

Google Developer Student Club

06/2024 - Present

- Collaborated with 5 GDSC Tech Leads to plan a semester-long DSA curriculum, boosting engagement by 80% through weekly planning and hands-on coding sessions.