

Dang-Nguyen Nguyen

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EDUCATION

University of California, Irvine

Bachelor of Science (B.S.) in Computer Science

Expected Grad: May, 2025

GPA: 3.85

SKILLS

Programming Languages: Python • JavaScript • TypeScript • Java • C • C++ • MIPS Assembly

Web & Database: SQL • HTML • CSS • PostgreSQL • MySQL • MongoDB • Firebase

Framework: React • React Native • Next.js • Chakra UI • Tailwind CSS • Bootstrap • REST API

Technologies: Git • Postman • Figma • NodeJS • ExpressJS • AWS (S3, EC2, RDS) • MS Office (Excel, Word)

EXPERIENCE & LEADERSHIP

Commit the Change | UC Irvine Student Organization

Irvine, CA

Technical Lead

June 2023 - Present

- Led a **12-developer** team for Orange County's nonprofit, Stand Up To Trash, using **Scrum**; facilitated weekly standups, sprint planning, crafted project requirements documentation, and conducted code reviews.
- Conducted regular meetings with the client to align on project requirements and the nonprofit's goals.

Full-Stack Developer

October 2022 - June 2023

- Volunteered with a **15-person** team to develop a donation management tool for the non-profit Patriots & Paws, enhancing furniture donation coordination and driver pickup routes using **React, PostgreSQL, NodeJS, Express**.
- Modernized Patriots & Paws' operations from paper to digital, creating a dynamic inventory system for furniture pickups.
- Collaborated in **Agile** sprint through peer-programming and engaged with clients to clarify requirements.
- Saved the NPO **100+ labor hours** monthly, improved donation pickup processes for Orange County Veterans by **3X**.

University of California, Irvine | School of Information & Computer Science

Irvine, CA

Learning Assistant

September 2023 - Present

- Supported **300+ students** with **Data Structure & Algorithm** in **C++** through office hours and pre-exam reviews.

Lab Tutor

March 2023 - June 2023

- Assisted **40+ students** with **Python** fundamentals and reduced academic help needs by **30%** through after-class support.

Coding Minds Academy

Irvine, CA

Coding Instructor

July 2023 - Present

- Fostered the next generation of programmers by leading **Python, C++, HTML/CSS** courses for students grades 1-10.
- Devised personalized lesson plans tailored to students' progress and needs to increase comprehension and proficiency.

PROJECTS

TryEducado.com | Next.JS, TypeScript, Pinecone DB, Langchain, Prisma, OpenAI

August 2023 - Present

- Worked with teachers and district officials to build an **AI powered tool** to help teachers check-in with their students.
- Leveraged **Pinecone** for textbook storage and integrated **OpenAI API** for automated quiz generation
- Conducted outreach for classroom trials in CA, OK, NY, gathering feedback that led to **10 active users** at launch.
- Introduced an **AI teacher assistant** for after-hours student support, enhancing continuous learning and engagement.

ZotnFound.com | React, ChakraUI, Javascript, PostgreSQL, Firebase, AWS

2nd Place - VenusHack 2023

- Coordinated a group of 4 in developing a web app to help UCI students locate and recover lost belongings.
- Utilized **Figma** for UI, built the frontend using **React, ChakraUI**, and **Leaflet**, integrated **PostgreSQL** for data storage, implemented **Firebase** authentication, and developed a **React Native** mobile app optimized for on-the-go users.
- Utilized **AWS S3** for frontend and **EC2** for NodeJS backend deployment.
- Gained **800+ page views** with **200+ users** in a week; grew Instagram to **300+ followers**; assisted **10 students**.

ZotPals | Node.JS, Express.JS, MongoDB, HTML, CSS, Git

1st Place - UCI Webjam 2022

- Led team of 4 to develop a web app for student exchanges of unused items, fostering connections and sustainability.
- Implemented a robust **Express** and **MongoDB** backend with **REST APIs** and **HTTP** protocol.