# TRI NGUYEN

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## EDUCATION

**University of California, Santa Cruz** - Bachelors of Science, Computer Science, GPA 3.87, Dean's Honors List 2021 - 2025

## TECHNICAL SKILLS

Python, C++, C, HTML, CSS, JavaScript, Git, Tableau, Microsoft Word, Windows, Linux, WordPress

## EXPERIENCE & PROJECTS

### Project | Personal Portfolio Website

*Project* HTML, CSS | JavaScript

- Designed a personal website, featuring an interactive portfolio of software projects, highlighting my development journey and technical skills.
- Integrated dynamic, user-friendly interfaces for seamless exploration of coding projects, enhancing visitor engagement.
- Showcased proficiency in web development and UI/UX design through site architecture and aesthetic detailing.

### Hackathon | CruzHacks Parking Map Project

*Hackathon* Python | HTML, CSS | JavaScript | Flask

- Engineered a web application that streamlines parking spot discovery with a user-driven reporting system, delivering instant updates on availability
- Utilized Python Flask for backend operations, combining it with a sleek frontend crafted in HTML, CSS, and JavaScript.
- Devised a dynamic map interface equipped with interactive elements like clickable parking lot buttons and dropdown menus.

### Project | Weather CLI App

*Project* Python

- Engineered a command-line tool for precise global weather tracking, enabling users to access up-to-the-minute weather forecasts worldwide.
- Seamlessly integrated the OpenWeather API to provide real-time weather data.
- Elevated user experience by designing customizable settings, allowing users to tailor weather forecasts according to their specific preferences and locations.

### Project | AI Pac-Man Pathfinder

*Project* Python

- Developed an AI-driven strategy enabling Pac-Man to navigate complex mazes, leveraging advanced pathfinding algorithms to optimize movement and increase game efficiency.
- Implemented state-of-the-art search algorithms, including A* and BFS, to enhance pathfinding accuracy and speed.
- Mastered efficient goal-reaching strategies, enabling the AI to navigate through dynamically changing environments.

### Member | Slug CP

*UCSC Club* C++ | Python

- Attend general meetings to learn new CS topics and practice problem-solving skills.
- Completed weekly coding problems, fostering a deeper understanding of algorithmic solutions.
- Collaborated on small projects within the club, developing teamwork skills

## NOTABLE COURSES

Computer Systems and Assembly Language, Artificial Intelligence, Analysis of Algorithms, Data Structures and Algorithms