

NICHOLAS THEODORUS CHAN

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EDUCATION

UC San Diego, San Diego, CA - Bachelor's of Science in Computer Science (Expected June 2026)

Relevant coursework: System Programming & Software Tools in C, Advanced Data Structures in C++, Design & Analysis of Algorithms, AI Probabilistic Models, Web Client Languages, Recommender Systems & Web Mining, Computer Security, Working with Large Codebase.

SKILLS

Languages: Python, C++/C, Java, Javascript/TypeScript. **Web:** HTML/CSS, React.js, Express.js, Node.js, Django, Flask. **Backend:** Spring Boot, REST API, MongoDB, SQLite/ SQL. **Tools:** Git, GitHub, OpenAI API, Bash, Docker.

WORK EXPERIENCE

STEMUp - Full Stack Software Engineer Intern (June 2025 – August 2025)

- Built an AI-powered résumé feedback tool (Flask, React, OpenAI, MongoDB) that lets users upload PDFs, see GPT-4 suggestions, edit text in the browser, and download updated résumés.
- Optimized API routes and added MongoDB indexes, reducing response time by 70% and increasing parsing accuracy from 50% to 95%.
- Co-led an 8-intern Agile team, mentoring 2 peers and streamlining daily stand-ups from 15 to 7 minutes.

GigChampion - Full Stack Software Engineer Intern & Wordpress Developer (April 2025 – February 2026)

- Built a pollen and air quality platform using WordPress, Elementor, and Cloudflare, reducing first-load time by 75% through lazy loading and edge caching while improving SEO and lowering API costs by about \$500 per month.
- Led migration to a Next.js, Express, and MongoDB stack, improving page load times by about 40% while preserving existing pollen, weather, and AQI workflows.
- Built a location search pipeline with Google Places Autocomplete, browser geolocation, reverse geocoding, and server-side caching, reducing incorrect ZIP-level results by about 60% and cutting third-party API calls by about 50%.
- Shipped an allergist portal with a public directory and JWT-protected dashboard, including profiles, reviews, geospatial search, photo uploads, and Stripe API subscription billing.

NumisToken - Full Stack Software Engineer Intern (September 2025 – Present)

- Implemented a maintenance mode feature in Spring Boot that returned HTTP 503 during downtime and reduced requests reaching protected endpoints by about 95%
- Strengthened NFT redemption logic with ownership validation and centralized error handling, preventing invalid redemption flows and adding 18 unit tests with JUnit and Mockito.
- Built an authenticated React and TypeScript submission flow with secure API requests and PDF downloads, reducing common submission errors.

STRONG Island - AI Automation Intern (April 2025 – September 2025)

- Built and launched a Lindy-powered email scheduler that reads requests, picks open slots, and sends calendar and video links, pushing booking accuracy from 30% to 80%.
- Refactored prompts into reusable components, reducing token use by 60%.

LEADERSHIP EXPERIENCE

UC San Diego CSE 110 - Team Lead (January 2025 – May 2025)

- Led an 11-person Agile team with daily stand-ups, coaching, and live-coding to build a skill-tree web app; finished top 3 of 33 teams.
- Introduced GitHub Actions CI/CD with PyTest/Jest/HTML/CSS checks, boosting test coverage from 30% to 80%, cutting bugs by 50%, and speeding integrations by 70%.
- Created a role map and project wiki that halved onboarding time and kept all milestones on schedule.

Code the Change (Diablo Valley College) - Vice President (January 2023 - April 2024)

- Directed 3 teams of 20 developers to build 7 websites for nonprofits using React, Express, MongoDB, and Node.js that supported 100% of non-profit organization outreach efforts.
- Ran bi-weekly web development + GitHub workshops, increasing club membership by 50% in one semester.
- Provided 1-on-1 tutoring that achieved 100% assignment completion for students.

Project Bracket (Diablo Valley College) - Project Manager (August 2023 - November 2024)

- Mentored a 4-person team and conducted code reviews that reduced errors by 60% and boosted member skill growth by 75%.
- Designed a weekly training program that increased member retention by 25% and understanding of technical topics by 80%.

PROJECTS/CERTIFICATES

CS50 (EdX) - <https://courses.edx.org/certificates/80f52dacd8f8481fae1df9b075f4f870>

Built a workout video database + BMI-based recommendation system; improved load time by 30% with media compression and increased weekly gym consistency by 67%.

Web-Design - <https://www.udemy.com/certificate/UC-8764808d-f4cd-4046-b8e6-eb881966be0c/>

Built a responsive front-end experience with animated UI elements for exploring culinary techniques and recipes.