

# Nicholas Nguyen

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## EDUCATION

### University of California, San Diego

Bachelor of Science: Computer Science | GPA: 3.706/4.0

San Diego, CA

September 2022 - June 2026

**Relevant Coursework:** Computing in Python, Object-Oriented Programming, Advanced Data Structures and Algorithms, Algorithms/Systems Analysis, Software Engineering, Machine Learning, and Database System

## EXPERIENCE

### Full-Stack Developer

November 2024 - Present

CSES Dev

San Diego, CA

- Contributed to the development of Webclicker++, a web application designed to streamline student participation in class activities and provide professors with efficient tools for managing courses and tracking engagement.
- Built back-end with **Node.js** and **Express.js**, implementing **REST APIs** for sessions, validation, and error handling.
- Handled **POST** and **GET** requests for user registration, class creation, and real-time participation data retrieval.
- Integrated **Firestore Authentication** to secure user access with role-based permissions for students and professors.
- Developed middleware in **Express.js** to validate **Firestore ID** tokens, restricting routes to authorized users.

### Front-End Developer

October 2024 - Present

CSES Opensource

San Diego, CA

- Contributed to the development of an open-source e-commerce platform for UCSD students, providing product listings, seamless navigation, real-time messaging, seller verification, and facilitating local transactions.
- Collaborated with designers to align UI/UX elements with user needs and platform goals.
- Built the basic front-end structure with **React** and **Tailwind CSS** to create a responsive UI for UCSD students.
- Conducted performance optimization through lazy loading of components and efficient state management.

### Education Mentor

January 2024 - February 2024

UCSD Create

San Diego, CA

- Conducted educational visits to K-12 schools, teaching and mentoring students on foundational coding concepts.
- Introduced students to interactive programming exercises and led them through hands-on learning experiences.

## PROJECTS

### Developer's Journal | HTML/CSS, Javascript, Git, Agile

April 2024 - June 2024

- Collaborated in a **team of 9** to develop a Developer's Journal using **HTML**, **CSS**, and **JavaScript**, following **Agile** practices.
- Designed the layout and visual elements in **Figma**, ensuring a clean and intuitive interface for users.
- Built a CI/CD pipeline with **YAML workflows** for seamless integration, deployment, and auto-testing on GitHub Pages.
- Performed E2E testing with **Puppeteer** and **Jest** to validate functionality through user simulations.

### Gradescope Schedule Syncer | Flask, HTML/CSS

April 2024

- Built a full-stack web app with **HTML/CSS** and the **Gradescope API** to sync all courses and assignments into one layout.
- Utilized **Flask** for backend processing to handle API requests and ensure efficient data retrieval.
- Deployed the application on **PythonAnywhere** to provide live access and seamless data interaction.
- Added export functionality for users to download schedule data as a .csv for easy Google Calendar integration.

### Calories Tracker | MongoDB, Express.js, React, Node.js

September 2023 - January 2024

- Worked in a **team of 4** to develop a full-stack web app, allowing users to track calorie intake and manage food entries.
- Built the front-end with **React**, creating dynamic interfaces and managing state for a responsive experience.
- Developed the back-end of the app using **Node.js** and **Express.js**, handling API requests and managing server-side logic.
- Designed and implemented **MongoDB** schemas to efficiently store and retrieve user data and food information.

## TECHNICAL SKILLS

**Languages:** Python, Java, HTML/CSS, JavaScript, C, C++, Assembly, SQL

**Libraries/Frameworks:** Flask, Node.js, Express.js, React, TensorFlow, Keras, OpenCV, scikit-learn, NumPy

**Tools:** Git/GitHub, VS Code, VIM, Google Colab, JUnit, Figma