

Hieu Duong

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EDUCATION

University of California, Los Angeles

Bachelor of Science – Computer Science

Los Angeles, CA

Expected December 2025

Relevant Coursework: Data Structures & Algorithms; Software Construction; Logic Design of Digital Systems; Operating Systems Principles; Computer Organization; Computer Systems Architecture; Computer Graphics

Yuba College

Associate in Science for Transfer – Computer Science

Yuba City, CA

May 2023

Relevant Coursework: C++ Programming; Computer Assembly Language; Discrete Structures

Awards: Yuba College Honors List

WORK EXPERIENCE

Champions Cleaning Solutions - React | TypeScript | Next.js | HTML | CSS

Yuba City, CA

Front-end Developer

Aug 2024 – Present

- Responsible for designing and developing responsive website for a commercial cleaning company, ensuring optimal user experience on both desktop and mobile devices
- Implemented seamless page transitions and dynamic scroll-triggered animations using the Framer Motion library, boosting engagement and enhancing overall visual appeal for potential clients
- Incorporated search engine optimization by optimizing metadata and using Next.js server-side rendering to improve search engine visibility and drive organic traffic

PROJECTS

3D Pong - JavaScript

Mar 2024

- Collaborated with a team of 3 to design and develop a 3D rendition of the classic game, Pong, incorporating real-time physics for accurate ball movement, paddle interaction, and dynamic camera angles to enhance gameplay immersion
- Integrated realistic collision detection by analyzing the ball's trajectory to determine its impact location and calculating the resulting vector upon collision with the paddles or outer bounds of the playing field
- Implemented 3D object rendering by utilizing advanced texture mapping, shading, and shadow mapping through the tiny-graphics library, resulting in a visually realistic and immersive gameplay experience

Students Inferno - React | Next.js | JavaScript | HTML | CSS | MongoDB

Jan 2024

- Led a team of 5 to develop a dating-like app designed to help students find study partners by assessing individual skills and strategically assigning roles, while managing each member's time commitment to ensure completion by the 10-week deadline
- Developed interactive, animated profile cards for the front-end by utilizing CSS hover states and transformations, delivering an engaging experience as users navigate through a list of students generated by a matching algorithm
- Designed and constructed a scalable database and backend functions using MongoDB atlas for storing user information gained from Google authentication and enable easy data retrieval for front-end developers

Kapi - React | Next.js | TypeScript | HTML | CSS | MongoDB

May 2023

- Collaborated with a 7-person team of designers and developers to create of an online networking platform focused on creating an inclusive community for underrepresented groups in the gaming space
- Responsible for development and review of all front-end components, including login, profile, and personalized home pages, while in communication with design team to ensure adherence to best practices for UI/UX
- Developed multi-paged user onboarding process, using React's "useContext" to keep record of previous user inputs and updated back-end database through various API calls

Discord Bot - JavaScript | Node.js | MongoDB | Heroku

Oct 2022

- Created a Discord bot featuring automated birthday reminders, Spotify/YouTube playback, server currency, and gambling system using Node.js and MongoDB, resulting in over 150% server engagement

Technical Skills

Programming Languages: JavaScript, C++, C, Python, TypeScript

Technologies: HTML, CSS, React, Node.js, Next.js, MongoDB, Heroku, Figma, Tailwind, Git