

# CATHERINE NGUYEN

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## Education

**San Jose State University | San Jose, CA**  
Bachelor of Science, Computer Science

**August 2019 - May 2022**  
**GPA: 3.93**

### Relevant Coursework:

CS146: Data Structures & Algorithms  
CS149: Operating Systems  
CS152: Programming Paradigms  
CS157A: Intro to Database Management Systems  
MATH32: Calculus III

CS147: Computer Architecture  
CS151: Object-Oriented Design  
CS154: Formal Languages & Computability  
CS157C: NoSQL Database Systems  
MATH161A : Applied Probability and Statistics I

## Work Experience

### Asian Student Achievement | IL

#### Web Design Intern

**October 2021 - Present**

- Developed and managed website pages to accurately portray the organization's mission
- Designed site prototypes on Figma to keep track of website design changes
- Increased web traffic by 65.4% and user engagement by 55.56%

### Computer Science Department @ SJSU | CA

#### Lab Instructor (CS46B)

**August 2021 - Present**

- Taught 20-30 students basic data structures in Java using hands-on labs and partner programming
- Ensured students have an adequate understanding of CS course material on pace with CS46B lectures

### NorCal UVSA | CA

#### IT Cabinet Staff Lead

**July 2021 - Present**

- Updated the NorCal UVSA website to match current UX/UI designs
- Created and managed event registration pages, payment portals, and articles to ensure accuracy and accessibility

### Jade | CA

#### UX/UI Designer

**August 2020 - May 2021**

- Collaborated with the development team to create a SaaS solution for group management
- Designed user flows and site prototypes on Figma curated to user feedback
- Developed React.js and CSS files to create a fully functional website

## Leadership Experience

### San Jose State University Vietnamese Student Association (SJSUVSA) | San Jose, CA

#### Anh Chi Em Committee (ACE)

**September 2020 - October 2020**

- Advertised the program and engaged general members utilizing the ACE Instagram account
- Planned multiple virtual social events
- Resolved internal conflicts amidst the sudden shift to an online setting

#### Cabinet Intern

**February 2020 - May 2020**

- Hosted organization meetings and socials with fellow interns
- Learned how to sustain and retain member interest in an organization during a pandemic
- Assisted in running an organization with over 400 members

## Projects

### What-To-Do | HTML/SCSS, Bootstrap, ExpressJS, MongoDB

**January 2022**

- To-do list web application that allows users to keep track of their tasks
- Designed using Figma and Adobe Photoshop
- Includes CRUD operations on Task objects

### Chat Room | Redis, MongoDB, React.ts, Git

**July 2021 - August 2021**

- Chat room web application that allows for communication between users on the same local storage
- Implemented front-end using React with Typescript
- Designed prototype using Figma to allow other team members to visualize the application and user flow

### Maze Generator & Solver | Java

**November 2020**

- Program that generates and solves a perfect maze
- Takes in a square matrix of user-inputted size
- Returns solved mazes using both Depth First Search and Breadth First Search

## Technologies & Skills

- Proficient in Java, HTML/CSS
- Experienced with Object-Oriented Programming
- Detail-oriented with a learning mindset
- Strong understanding of Data Structures

- Figma, Adobe Photoshop
- Wordpress, Weebly

- Familiar with React.js, Javascript
- Experienced in SQL, MongoDB