

# JESSICA NGUYEN

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## EDUCATION

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### University of Houston

May 2026

*B.S in Computer Science | Minor in Mathematics*

### Colorado School of Mines

December 2022

*B.S in Computer Science*

**Relevant Coursework:** Database Systems, Algorithms, Data Structures, Computer Architecture, Operating Systems, Software Design, Automata and Computability

## SKILLS

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

**Frameworks/Libraries:** React, Express, Node

**Tools/Technologies:** Git, VSCode, AWS

## EXPERIENCE

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### Code Sensei — *Code Ninjas*

December 2024 – Present

- Facilitated weekly coding lessons to approximately 30 students ages 6 to 14, fostering creativity and technical expertise through video game projects built with Microsoft MakeCode
- Empowered students to devise problem-solving skills, logical thinking, and a passion for technology through engaging, practical projects tailored to enhance comprehension and application of programming concepts

### Front of House — *The Alley*

January 2022 – December 2024

- Led daily operations, managing teams to ensure seamless service for a 1000+ customer base
- Utilized point-of-sale (POS) systems to track daily sales, inventory, and customer trends, recommending improvements for reporting process to make data more accessible for future planning

## PROJECTS

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### Zoo Database Web Application | AWS, React.js, MySQL, Node.js, Vite.js, Git

November 2024

- Led a team of 5 to develop a Full Stack Zoo Management System, streamlining CRUD operations across multiple modules (animals, employees, exhibits, ticketing, and retail) and deploying an AWS-hosted MySQL database
- Built an intuitive web interface leveraging React.js, executing features such as form validation, user authentication, and a responsive dashboard enabling efficient management of zoo operations and real-time data updates
- Designed and implemented a normalized database schema featuring advanced MySQL concepts including triggers for data auditing, stored procedures for transaction handling, and soft deletion for data preservation

### Spotify Concert Finder | React, JavaScript, Python, Firebase

May 2024

- Developed a personalized concert discovery platform integrating Spotify Web API to analyze users' listening history and Ticketmaster API to display nearby concerts from favorite artists
- Imposed secure user authentication using Firebase and OAuth 2.0 for Spotify login, enabling seamless account integration and persistent user preferences across sessions

### Gummy Bear Arena | C++

December 2023

- Crafted a text-based RPG game demonstrating C++ object-oriented principles, featuring character customization, turn-based combat system, and diverse in-game actions
- Created an interactive HUD system to display real-time player statistics, combat feedback, and game progression

## ACTIVITIES AND AWARDS

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**Activities:** CS Girls, Society of Asian Scientists and Engineers, Society of Women Engineers, CougarCS

**Awards:** Dean's List Spring 2023