Brandy Nguyen

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EDUCATION

California State University, Fullerton   **May 2025**
B.S. in Computer Science | GPA: 3.62

Orange Coast College   **May 2023**
A.S. in Computer Science | GPA: 3.2 | Certificate of Specialization (Python and C++)

TECHNICAL SKILLS

- Programming Skills: Python, C++, C, C#, Java, React, TypeScript, SQL, MySQL, MongoDB
- Microsoft 365 package (Word, PowerPoint, Excel)

EXPERIENCE

Coding Instructor | Coding Mind Academy | Irvine, CA   **December 2023 - Present**

- Instruct K-12 students in the intricacies and foundational concepts of coding, guiding them through the essentials of Python, C++, and Java at both basic and intermediate proficiency levels
- Provide personalized guidance and mentorship to students as they embark on individual coding projects, fostering their creativity and problem-solving skills
- Captivate the interest of younger students by incorporating engaging platforms, such as Roblox Studio, Minecraft, and Scratch, making coding education an enjoyable and interactive experience

PROJECT EXPERIENCE

Code Red   **September 2024 - Present**

- Collaborating with a partner to develop a web-based multiplayer icebreaker activity using Phaser and Colyseus to improve virtual employee engagement
- Designing and implementing real-time multiplayer functionality via WebSockets in Colyseus, enabling up to six players to join and interact in a shared game room through a unique join code
- Deploying the application on cloud platforms (Vercel and Vultr), optimizing for scalability and seamless access via a custom web domain

Smell You Later Group Project   **May 2024**

- Developed a user-friendly fragrance recommendation app using React Native, MongoDB, and AWS
- Utilized a K-means clustering algorithm to identify 10 optimal fragrance matches based on user preferences identified through a brief questionnaire from a 38,000+ entry dataset
- Integrated Google's Gemini API to describe 10 different fragrance scents and the ideal season for usage

Kanban Board Group Project   **April 2024**

- Created an agile project management tool designed to help visualize work, limit work-in-progress, and maximize efficiency with React, PyMongo, Docker, and Flask API
- Implemented a functional frontend and backend website that allows users to create, update, and delete a task
- Contained 4 categories that the user can put their task in: Doing, To-Do, Done, and Dropped

LEADERSHIP EXPERIENCE

Historian | OCC UX/UI Club | Costa Mesa, CA   **October 2021 - January 2022**

- Captured and compiled a comprehensive visual record of club events, meetings, and activities
- Organized and managed a digital library of photographs, ensuring easy accessibility for future references and promotional efforts
- Responsible for capturing dynamic and engaging photographs during club events, ensuring a visually appealing representation of the club's activities