

Brandy Nguyen

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EDUCATION

California State University, Fullerton

May 2025

B.S. in Computer Science

Orange Coast College

May 2023

A.S. in Computer Science | Certificate of Specialization (Python and C++)

TECHNICAL SKILLS

- Programming Skills: Python, C/C++, C#, Java, TypeScript, SQL, MySQL, MongoDB
- Frameworks: React, React Native, [Phaser.js](#), Svelte, [Node.js](#), Colyseus, Flask
- Developer Tools/Technology: Git, GitLab, GitHub, VS Code, Microsoft 365 package

EXPERIENCE

Software Test Engineer Intern

May 2025 - Present

Applied Medical

Rancho Santa Margarita, CA

- Validate and verify the functionalities of 8+ medical scripts and software from Windows 10 to Windows 11 to ensure requirement compliance, while providing feedback for improvements
- Execute 10+ test protocols and log bug reports on GitLab using black-box testing methods, including ad hoc, manual, and automated techniques on electrosurgical generators and surgical devices
- Develop 3+ automated test scripts using an in-house language to improve protocol testing efficiency and reduce the required amount of manual labor by 20%
- Participate in daily Scrum meetings to discuss team tasks, assign backlog items, and provide updates on individual assignment progress and accomplishments

Coding Instructor

December 2023 - April 2025

Coding Mind Academy

Irvine, CA

- Instructed 5+ 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
- Provided personalized guidance and mentorship to students as they embark on individual coding projects, fostering their creativity and problem-solving skills
- Captivated the interest of younger students by incorporating engaging platforms, such as Roblox Studio, Minecraft Education, and Scratch, making coding education an enjoyable and interactive experience

PROJECT EXPERIENCE

Code Red

May 2025

- Collaborated with a partner to develop a web-based multiplayer icebreaker activity using Phaser and Colyseus to improve virtual employee engagement and familiarity by 30%
- Designing and implementing real-time multiplayer functionality via WebSockets in Colyseus, enabling up to 3 to 6 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