Brandy Nguyen

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https://github.com/BrandyNguyen2 | https://portfolio-sand-gamma-88.vercel.app/index.html

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, Selenium
- 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 (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 average of 20%
- Create 5+ issues on GitLab that reports bug issues, identify documentation inaccuracies, and perform various issue retests to validate and confirm if the issue is still prevalent
- Participate in daily Scrum meetings to discuss sprint tasks, assign backlog items, and provide updates on 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 — **October 2024 - 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
- 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