

# Gwen Bradforth

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New graduate from the University of Southern California seeking employment in the technology industry.

## EDUCATION

<b>University of Southern California</b>   Bachelor of Science in Computer Science	2020 - 2024
<ul style="list-style-type: none"><li>• <i>Awards:</i> Deans List Fall 2021</li><li>• <i>Relevant courses:</i> Calculus I-III, Data Structures and Object Oriented Design, Linear Algebra, Embedded Systems, iOS App Development, Algorithms and Theory of Computing, Software Development/Engineering, Computer Security, Natural Language Processing, Artificial Intelligence, InterNetworking, Operating Systems</li></ul>	

## SKILLS

- **Languages:** Python, C/C++/C#, Java, Swift, SQL, PHP, HTML/CSS, Dart, Assembly, English, Japanese (N4)
- **Frameworks:** Flutter, Django, Flask, React
- **Developer Tools:** GitHub, Android Studio, Xcode, Jupyter, Visual Studio Suite, Docker, AWS
- **Libraries:** Tensorflow, PyTorch, Pandas, NumPy, OpenCV

## WORK & RESEARCH EXPERIENCE

<b>CURVE Fellowship</b>	2023 - 2024
<b>University of Southern California</b>	Los Angeles, CA
<ul style="list-style-type: none"><li>• Collaborated with a Ph.D. student for 7+ hours a week to conduct a research study with 30+ dementia patients</li><li>• Developed Python program with Tobii Lab SDK to capture eye-tracking data, replacing \$4,000 software; implemented for study data collection</li><li>• Performed data analysis and multimodal training of machine learning models with eye-tracker and audio data, research paper in review</li></ul>	

<b>Computer Science and Math Instructor</b>	2023
<b>Juni Learning</b>	Remote
<ul style="list-style-type: none"><li>• Taught one-on-one classes with students aged 6-16, gave instruction on Java, Python, and Algebra</li><li>• Met with each of 7 students for an hour a week as primary instructor</li></ul>	

<b>Research Student</b>	2022
<b>Cancer Research UK</b>	Cambridge, UK
<ul style="list-style-type: none"><li>• Collaborated daily with graduate students in lab of Professor Sarah Bohndiek</li><li>• Developed front end web tool to execute imaging analysis using Django and Flask, presented project</li></ul>	

## CONFERENCE PAPERS

<b>[1] A Multimodal Benchmark of Speech, Gaze, and Sketches for Detecting Alzheimer's disease and related dementias</b>	
Leticia Pinto-Alva, Leslie Moreno, <i>Gwen Bradforth</i> , Riley Ashford, Cecily Chung, Maja Mataric, Jesse Thomason (In Review)	
<ul style="list-style-type: none"><li>• Written on the results of study done during CURVE Fellowship - machine learning to detect Alzheimers SocialNLP 2023</li></ul>	

## PROJECTS

<b>(In development) Collaborative Codewords</b>   HTML/CSS, JavaScript, Python	2024
<ul style="list-style-type: none"><li>• Building a web-hosted game where players can solve programmatically generated puzzles</li><li>• Linked clients into P2P collaborative sessions with simultaneous live updates</li><li>• Learning Goals: Socket communication, multiplayer games, programmatic map generation</li></ul>	
<b>OutPlay</b>   Swift, Python	2022
<ul style="list-style-type: none"><li>• Developed an iOS app for a reality-integrated capture-the-flag game</li><li>• Utilized map integration to place users on the map within their area for gameplay</li><li>• Won "Best Use of C/C++, Rust, Swift or Assembly" at AthenaHacks, sponsored by Raytheon</li></ul>	