Gwen Bradforth

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EDUCATION

University of Southern California | Bachelor of Science in Computer Science　　　　　　　Expected May 2024
- Relevant courses: 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

SKILLS

- Python, Java, C/C++, Swift, HTML/CSS, Assembly, OS X, GitHub, Microsoft Office, Google Suite, Calculus, SQL, Machine Learning, Artificial Intelligence

WORK & RESEARCH EXPERIENCE

University of Southern California　　　　　　　Los Angeles, CA
CURVE Fellowship　　　　　　　May 2023 - Present
- Collaborating with a Ph.D. student for 7+ hours a week to conduct a research study with dementia patients
- Developing software involving the Tobii Lab SDK to perform eye-tracking data collection, deployed in study on 30+ participants
- Performing multimodal training and evaluation of machine learning models with eye-tracker data

Juni Learning　　　　　　　June 2023 - Present
Computer Science and Math Instructor　　　　　　　Remote
- Teaching one-on-one classes with students aged 6-16, giving instruction on computer science and mathematics topics
- Meeting with each of 7 students for an hour a week as primary instructor

Cancer Research UK　　　　　　　June 2022 - August 2022
Research Student　　　　　　　Cambridge, UK
- Collaborated daily with graduate students in lab of Professor Sarah Bohndiek
- Developed a web tool to execute imaging analysis using Django and Flask, presented project

University of Southern California　　　　　　　June - August 2019
Bridge Undergraduate Science Program (BUGS)　　　　　　　Los Angeles, CA
- Collaborated with 2 graduate students in lab of Professor Scott Fraser as a BUGSjr, with daily work on microscopy, computer science, and neuroscience concepts
- Completed a computational neuroscience research project, created machine learning algorithm on zebrafish brains
- Demonstrated project to 40+ USC students and staff in final presentation

PROJECTS

OutPlay | AthenaHacks　　　　　　　2022
- Developed an iOS app of an integrated capture flag game, allowing for active play and safety
- Won best Use of C/C++, Rust, Swift or Assembly, sponsored by Raytheon

HONORS AND AWARDS

2019 Summer Research Award | University of Southern California　　　　　　　August 2019
- Award granted to students who completed and presented the Bridge Undergraduate Science summer research project.

NCWIT Award for Aspirations in Computing: Los Angeles Affiliate | National Center for Women & Information Technology　　　　　　　February 2020
- Award granted to female and non-binary students for their aptitude, achievements, and experiences in computing.