Samantha Fan

3335 S Figueroa St #555 | Los Angeles, CA 90007
samanthaxfan@gmail.com | (847) 219-5468 | https://sxfan02.github.io/

EDUCATION

University of Southern California (USC), Los Angeles, CA   August 2020-May 2024
Bachelor of Science in Computer Science
- GPA: 3.93
- Relevant Coursework: Calculus III, Discrete Methods in Computer Science, Linear Algebra and Linear Differential Equations, Data Structures and Object-Oriented Design (C++)
- Presidential Scholar, Dean's List (Fall 2020, Spring 2021)

SKILLS

Technical Skills:
- C++, Java, Python, JavaScript, CSS, HTML
- Unity
- Microsoft Office Suite, Google Workspace, Git

Languages:
- Conversational Mandarin

WORK EXPERIENCE

iDTech, Remote   May 2021-August 2021
Virtual Tech Camp Instructor
- Hosted week-long online tech camps (C++, Java, JavaScript, Unity) for students aged 12-18 in small groups, familiarizing them with core programming concepts and language-specific syntax
- Prepared materials and curriculum outside of class-time to present a personalized experience to students
- Met with team leaders biweekly to discuss recent progress reports and behavioral trends, to enhance the student experience

Code Ninjas, Libertyville, IL   August 2019-August 2020
Code Instructor
- Guided students aged 7+ through JavaScript coding projects
- Led frequent facility tours for prospective students to introduce them to the curriculum
- Worked with 2 other team members to smoothly manage 20-25 students per shift

Kumon Math and Reading, Mundelein, IL   December 2018-August 2019
Center Assistant
- Developed fundamental reading and counting skills in preschool/early elementary children
- Tutored students on elementary and middle school level math and reading topics to build understanding
- Graded students' in-class and weekly homework assignments according to an answer key
- Worked with 5-8 students per shift in 1-2 hour sessions

RELEVANT EXPERIENCE

Applied Mathematical Physiology Laboratory, USC   August 2021-Present
Undergraduate Research Assistant (5+ hrs/wk)
- Migrated data processing procedures onto USC High-Performance Computing (HPC) cluster to take advantage of unused resources available for researchers
- Integrated project directory stored on the HPC cluster with a cloud-based file system to facilitate data transfer and sharing between researchers
- Use bash scripting to analyze hundreds of neuroimaging datasets with various pipelines under maximum time efficiency

Android App Development (Java, Android Framework), Ongoing   June 2021-Present
- Design and develop a daily photo diary app where users can upload one photo each day and view previous photos
- Learn independently to understand different components and interactions within an Android app
- Utilize Camera API to allow users to take new photos in the app and View class to display photos in unique layouts