

Samantha Fan

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EDUCATION

University of Southern California (USC), Los Angeles, CA
Bachelor of Science in Computer Science

August 2020-May 2024

- 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 ad
- Integrated project directory stored on the USC 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

June 2021-Present

Android App Development (Java, Android Framework), Ongoing

- 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