

Amy T. Nguyen

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EDUCATION

University of California, San Diego

Expected Graduation: June 2023

B.S. Computer Science

Major GPA: 3.67

Coursework: Advanced Data Structures, Assembly Programming, Algorithms/Systems Analysis, Java and Object-Oriented Programming, Discrete Mathematics, Software Development Tools, Theory of Computation

EXPERIENCE

Computer Science Tutor, University of California, San Diego

December 2020 - Present

- Tutor for CSE 8A - Introduction to Programming in Java under Professor Joseph Politz.
- Responsible for teaching students object oriented programming concepts such as functions, objects, classes, and debugging techniques.
- Held office hours and developed skills in explaining technical concepts, instruction, and organization.

Coding Instructor, Code Ninjas

August 2020 - October 2020

- Taught 20+ students the implementation of object-oriented programming, graphical user interface, and debugging in Javascript to create games.
- Taught Lua to students to create published video games in Roblox Studio.

Team Commander, Air Force Association Cyberpatriot

August 2015 - June 2019

- Developed virtual machines in order to teach 30 cadets how to find vulnerabilities and secure Ubuntu and Windows operating systems.
- Competed in the CyberPatriot National Finals Competition for placing as one of the top 13 teams in the nation and received an all-expenses paid trip to Baltimore, Maryland.

PROJECTS

2048

- Developed an implementation of a single-player puzzle game where users can slide numbered tiles to combine them by creating backend logic and data structures in Java.
- Implemented save state features, kept track user states and actions, and exported current game states.

LEADERSHIP

IEEE UCSD, Social Chair

June 2020 - Present

- Planning and executing events that connect 1500+ students with a student branch of the world's largest engineering society.
- Hosted socials, made budget requests, and publicized upcoming events.

SKILLS

Languages: Python, Java, HTML, JavaScript, Lua, C

Technologies: Git, Vim, Unix/Linux