

# HILLARY NGUYEN

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## EDUCATION

### University of California, Los Angeles

Los Angeles, CA

Bachelor's Degree, Computer Science and Linguistics

June 2027

- **Relevant Courses:** Data Structures, Algorithms, Object-oriented programming, Discrete Structures

## EXPERIENCE

### Orange Coast MemorialCare Hospital

Fountain Valley, CA

Maternity Ward / Emergency Room Volunteer

June 2021 – February 2023

- Escorted families through the hospital and patient rooms.
- Assisted nurses with patient transportation.
- Made phone calls to medical departments (oncology, ER, telemetry, maternity, surgical) organizing patient information.
- Translated Vietnamese & Spanish in the emergency room and maternity ward.

### TheTopScholar Tutoring

Fountain Valley, CA

Honors Student Tutor / STEM Chair

January 2021 – January 2022

- Taught Intro to Statistics and single-variable calculus to high school students.
- Co-founded, recruited, and trained peers to join the STEM tutoring team.

## PROJECTS & TECHNICAL

### Roguelike dungeon crawler (C++)

- Created a dungeon crawler in C++ controlled through the terminal where players navigate through multi-level maps, battle monsters, and collect weapons and skills to win the game.
- Used **inheritance** to design various monsters, game objects, and the player; **user input handling** to implement player movement, attack, and item interaction using keyboard inputs; **procedural generation** to create new levels including rooms and corridors with random placement of monsters and items. Also implemented an inventory system.

### Revision file compressor (C++)

- Developed a system to optimize data transfer by creating compact revision files based on old and new data files.
- Utilized C++ **file I/O streams** to read and write large files efficiently and implemented an efficient **data compression** algorithm to identify and encode differences between successive versions of inventory files. Reduced data transfer size by up to 35% for cost efficiency.

## LEADERSHIP

### Make-A-Wish, Fountain Valley High School

Fountain Valley, CA

President

May 2022 - June 2023

- Remolded the club's board departments through new management and technical training for board officers.
- Acted as the liaison between the campus club and the Make-A-Wish parent foundation.
- Granted a Make-A-Wish child's wish.

Secretary

May 2021 - June 2022

- Scheduled bi-monthly volunteering, fundraising, and social events at local festivals, food banks, hospitals, and nature reserves. Maintained club records and membership forms.

Publicist

May 2020 - June 2021

- Devised projects to raise \$5,450 through bake sales, running booths at festivals and local events, and designing, producing, and selling merchandise. Acted as the liaison between club board officers and club members.

### National Honor Society, Fountain Valley High School

Fountain Valley, CA

Secretary

May 2022 - June 2023

- Researched and directed bi-monthly service projects at nature revivals, soup kitchens, support marathons, and charity marathons. Mentored 10 younger members in organizing their projects.

### Boy Scouts of America

Santa Ana, CA

Crew Admins President

February 2021 - August 2022

- Developed programs and handled logistics for large-scale events such as intercrew overnight camps.
- Acted as the liaison between the crew scouts and adult leaders.

## SKILLS & INTERESTS

**Skills:** Python, C++, Adobe Photoshop, Git, Github, Davinci Resolve, Clip Studio Paint

**Languages:** English, Vietnamese, Spanish

**Interests:** Project Management, Software Engineering, Digital Illustration