Grace Anne Rabano

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EXPERIENCE

UNIVERSITY OF HOUSTON, Houston, TX   **August 2021 – April 2023**

Engineering Computer Lab Assistant

- Managed the front desk and completes clerical work such as paperwork, assisting faculty, data entry, managing communication between patrons and UH IT via email and over the phone
- Instructed team members how to troubleshoot software available in the lab (Aspen, AutoCAD, etc), how to maintain lab computers and printers, how to monitor the printing server, etc.

EDUCATION

UNIVERSITY OF HOUSTON, Houston, TX   **Expected Graduation: Fall 2023**

B.S. in Computer Science

- Minor in Mathematics
- **Overall GPA**: 3.40/4.0, **Major GPA**: 3.75/4.0 (as of Jan 2023)

Honors: Deans List for Spring 2021 and Fall 2022

Relevant Coursework: Software Engineering, Software Design, Programming & Data Structures, Algorithms, Automata, Operating Systems, Graph Theory & Applications, Digital Image Processing, Chemistry I, Biology I and II

PROJECTS

Dunya Flight Searcher   **October 2022**

CodeRED: Odyssey 2022 Hackathon

- Webapp where users can find the flights that best meet their interests and preferences
- Implemented using **Next.js, TypeScript, HTML, and Tailwind CSS**
- Contributed to website design, **front-end development**, and debugging

Fixed-Length Code Decompressor   **April 2022**

Operating Systems Project

- Program that takes the number of bits of fixed-length code, then creates child threads to decompress the message using binary and outputs the decoded message to the user
- **Utilizes IPC stream sockets and POSIX threads** running in parallel to enable channel-based communication between server and client, allowing for handling of multiple requests at any given time
- Implemented using **C++ on WSL** (Windows Subsystem for Linux)

Text Turn-Based RPG   **November 2021**

Assignment Continuation

- Short and simple turn-based game where the player can choose a character to fight various monsters.
- Implemented using C++ and utilizes class inheritance

ACTIVITIES AND LEADERSHIP

CougarCS

Operations Team Member   **Jan 2023 – Present**

- Works with team members and CougarCS executives to plan, organize, and execute logistics for all events
- Encourages member participation and helps facilitates events to ensure smooth operation

Tutor   **Fall 2022**

- Among the most prolific tutors for the Fall 2022 term, with **40+ logged hours** assisting a handful of students
- Tutored students struggling with coding and programming assignments in-person and online on Discord

TECHNICAL SKILLS AND OTHER

Programming Languages & Frameworks: C++, Python, JavaScript, HTML/CSS, TailwindCSS, SQL/MySQL

Developer Tools & Technologies: VS Code, PyCharm, MatLab, RStudio, Keil, Github, Jenkins, Microsoft Office

Spoken Languages: Elementary proficiency in Tagalog and Spanish