Elaeth Jonah M. Lilagan

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SKILLS & TOOLS

Java, C++/C, JS, HTML/CSS, Windows OS, Replit, Visual Studio Code, SQL, Turtle, JUnit4, Unix, Python, Github

EDUCATION

B.S. | California State University San Marcos | Software Engineering - Graduating Spring 2024 | GPA: 3.31

EXPERIENCE (leadership + jobs)

Stem SC Tutor, January 2023 - Present @ California State University San Marcos

• Communicate, collaborate, and aid students from CSUSM with their coursework.

• Providing constructive feedback and helpful insight to guide students to the right direction.

• Helped students in lower- and upper-division courses comprehend computer science concepts in C++ and Java.

CS433: Operating Systems Grader, February 2023 - Present @ California State University San Marcos

• Assisting the professor in grading homework assignments as well as maintaining and submitting student records.

• Aiding students with the coursework and preparation for quizzes and exams.

AEF Officer, August 2021 - December 2021 @ Det075 San Diego State University

• Help execute special activities that are held within the Wing.

• Alert the Wing to any impending special events.

Uniform Shop Officer, January 2022 - May 2022 @ Det075 San Diego State University

• Assist the Wing with uniforms and provide announcements.

• Maintaining compliance with AFI 36-2903's regulations and standards.

RELEVANT PROJECTS Link to Github Projects

Unix-Shell

• An application written in both C and C++ that acts as a shell interface and processes user instructions using system calls from the Unix fork(), exec(), wait(), dup2(), and pipe() system functions.

• Acts as a terminal between the user and kernel that executes history feature, input/output, and pipe.

BookEZ

• A Java program that simplifies bookkeeping for eBay sellers by grouping profits into a ROI (Return On Investment) table and calculating the user's net profit.

• Enables users to log in and out using an SQL database and uploads pdf receipts on the GUI.

Tetris Application with JUnit 4

• To develop JUnit test cases to test a Tetris video game written in Java.

• Utilized All Combinations Coverage, Prime Path Coverage, and Mutation Testing to achieve 99% coverage.