Elaeth Jonah M. Lilagan

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EDUCATION

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

EXPERIENCE

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 around 100+ students in lower and upper-division computer science courses.

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 around 60+ students with the coursework and preparation for quizzes and exams.

RELEVANT 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.

GitHub Portfolio

• Highlights my homepage for the user to access my academic background, about me, contact info, and resume.

• Written in HTML, CSS, Bootstrap, and JavaScript to showcase the graphic user interface.

SKILLS

Languages: Java, C++/C, JavaScript, HTML/CSS, SQL, Python, MySQL, JSON

Tools: Replit, Visual Studio Code, JUnit4, JaCoCo, Eclipse, Github, Firebase, PuTTY, AWS, Google Cloud, Bootstrap

Operating Systems: Windows OS, Unix, Linux