

# Jane Corsair

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## EDUCATION

### Associate of Science, Computer Programming

To be Conferred June 2024

Santa Monica College, Santa Monica, California

GPA: 3.6

- Relevant Coursework: Introduction to Computer Systems, C Programming, Calculus
- Campus Involvement: STEM Program, Student Clubs (Computer Science, Robotics)

## SKILLS

**Programming:** Experience with C, C++

**Engineering/Robotics:** Equipment (Multimeter Electrical Testers, 3D printers, Soldering Station and Iron, Circuit Boards); Autodesk TinkerCad

**Software Skills:** Proficient: Microsoft Office Suite (Excel, Word, PowerPoint); Google Workspace (Docs, Sheets, Slides)

## PROGRAMMING AND ROBOTICS EXPERIENCE

### C Programming Supplemental Instructor

August 2023 – Present

Santa Monica College, Santa Monica, California

- Develop and host 3 interactive study sessions per week to help students learn C programming course concepts and prepare for exams
- Guide students through practice problems, answering any questions about concepts
- Collaborate with faculty to identify overall needs of students enrolled in their classes
- Identify individual student needs and learning styles to tailor exercises to their needs

### Blinking Interactive RGB LED Circuit Board

June 2023

- Practiced soldering using a circuit board, a solder iron, and wires to construct an interactive RBG containing a battery, 3 resistors, 3 colored LEDs, and 3 push button switches

### Grade Calculator

November 2022

C Programming, Santa Monica College, Santa Monica, California

- Developed a program in C that designates a letter grade based on percentage inputted by user through the addition of int, scanf, printf, and if-else statements

### Salary Retro Pay

November 2022

C Programming, Santa Monica College, Santa Monica, California

- Programmed in C the calculation of an employee's previous salary as input and the amount of retroactive pay due to the employee as output, the new annual salary, and the new monthly salary
- Utilized a floating-point constant to represent the value of the pay increase and a while loop to represent the employer's current salary

### Tic-Tac-Toe, Rock Paper Scissors and Craps Game

November 2022

C Programming, Santa Monica College, California

- Constructed console-based games in C that interact with the user
- Applied while loop, if statements, switch statements, functions, math functions and random number generator

## RESEARCH EXPERIENCE

### Lead Systems Engineer Student Participant

May 2022 – August 2022

NASA L'SPACE Mission Concept Academy, Arizona State University, Phoenix, Arizona

- Created a Preliminary Design Review (PDR) with a team of approximately 3 to 6 undergraduate students with the goal of detecting water and signs of life through organic carbon on Mars
- Researched the environment, specifically the terrain and soil conditions of caves on Mars

### Principles & Practice of Scientific Research

February 2022 – June 2022

Santa Monica College, Santa Monica, California

- Led group research on the ion content in water samples from the Ballona Wetlands
- Performed chemical experiments and analyzed qualitative results in Microsoft Excel
- Expressed results and findings in the form of a research paper and campus presentation to coincide research