

Joseph M. Macfarlane

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EDUCATION

California Polytechnic State University – Software Engineering (B.S.) 3.54 GPA	September 2021 – June 2024
Cuesta College graduate – Computer Science (A.S.) 3.64 GPA	May 2021
High School graduate – 4.0 GPA	June 2018

RELEVANT COURSEWORK

Systems Programming, Design and Analysis of Algorithms, Data Structures I, II, & III, Software Engineering I & II, Computer Architecture, Discrete Structures, Individual Software Development, Programming Languages, Databases

SKILLS

Programming Languages: Java, Python, JavaScript, React, HTML, CSS
Software Tools: Linux, Vim, Maui, Blazor, Git, GitHub, Selenium

WORK EXPERIENCE

Front Desk Staff – The Pad Climbing	September 2021 – Present
<ul style="list-style-type: none">- Give certifications to and engage with climbers to promote an enjoyable experience- Teach new climbers rope basics and climbing technique to advance their knowledge	
NASA NCAS Intern – NASA	September 2021 – September 2021
<ul style="list-style-type: none">- Designed a full-scale mission to send a rover to investigate volatiles in the shadowed regions of the moon- Worked as computer and instruments engineer, responsible for deciding which systems to acquire	
Tutor – Grade Potential Tutoring	May 2021 – Present
<ul style="list-style-type: none">- Teach by asking questions to ensure proficiency- Encourage an interest for the subject to promote future success	
Crew Member – Trader Joes, Templeton	February 2016 – August 2019
<ul style="list-style-type: none">- Managed inventory and kept the store stocked with product- Improved customer satisfaction by recommending and locating products	

TECHNICAL PROJECTS

Rotten Ratings, Personal Full Stack Project	August 2023 – Present
<ul style="list-style-type: none">- Building a movie rating platform with Redwood JS, the newest React framework	
Farmers Market App, Full Stack Project	September 2022 – December 2022
<ul style="list-style-type: none">- Built a multiplatform app using MAUI .NET Blazor so runs on desktop, IOS, and Android- Allows local farmers to add products and customers to shop and purchase	
Functional Shell, Systems Programming Project	March 2022
<ul style="list-style-type: none">- A Unix shell able to execute any standard shell command- Able to pipe multiple commands, handle file redirection, and navigate the file system	

LEADERSHIP/SERVICE

Security Club – Member	January 2023 – Present
Swing Dance Club – Officer	April 2022 – Present
Church – Small group leader in youth group	August 2021 – July 2022
The Pad Climbing – Volunteered as a belayer	March 2018 – November 2019
Boy Scouts of America – Patrol leader	2014

ACHIEVEMENTS

Dean's List	Spring 2022, Fall 2022
Graduated Cuesta College with high honors	May 2021