

Joseph 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

SKILLS

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

WORK EXPERIENCE

Data Analyst – Xperi September 2023 – Present

- Analyzed massive amounts of user data over time to provide insights about users
- Built a custom dashboard to track the data

Front Desk Staff – The Pad Climbing September 2021 – Present

- Give certifications to and engage with climbers to promote an enjoyable experience
- Teach new climbers rope basics and climbing technique to advance their knowledge

NCAS Program – NASA January 2021 – September 2021

- Performed extensive research on in-situ resource utilization of lunar volatiles
- Designed a full-scale mission to send a rover to investigate volatiles in lunar shadowed regions
- Worked as computer and instruments engineer, responsible for deciding which systems to acquire

Tutor – Grade Potential Tutoring May 2021 – Present

- Teach by asking questions to ensure proficiency
- Encourage an interest for the subject to promote future success

PROJECTS

Rotten Ratings, Personal Full Stack Project August 2023 – Present

- Built a movie rating platform with Redwood JS, the newest React framework

Farmers Market App, Full Stack Project September 2022 – December 2022

- 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

- 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
Won NASA's NCAS on Mercury Gold team Sept 2021
Graduated Cuesta College with **high honors** May 2021