

JOSEPH MACAM

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EDUCATION

California State University, Chico

B.S. in Computer Science

📅 Graduation: December 2021

- **GPA:** 3.671
- Dean's Honor List - Fall 2020, Spring 2021

Palomar College

A.S. in University Studies - Math and Science

📅 Graduation: 2017

Palomar College

A.S. in General Studies - Science and Mathematics

📅 Graduation: 2017

WORK EXPERIENCE

Post Bachelor Research Associate

Pacific Northwest National Laboratory

📅 02/2022 - Present

- **Research Computing Capabilities Monitoring Project**
 - Profiled IOPS metrics of Deception supercomputer for using Python and SLURM job scheduler.
 - Documented guide to build Python and Conda virtual environments for scientists to use.
- Studied shared memory parallel programming methodologies in C on the Deception supercomputer.

Instructional Student Assistant/Volunteer

California State University, Chico

📅 01/2019 - 12/2021

- Assist students in the CSCI 111 and CSCI 211 course in debugging their assignments & demonstrating debugging methods in C++. Tutor introductory programming fundamentals with students in C++, such as pass-by-reference vs. pass-by-value and variable scope and object-oriented programming.

Computer Science Department Tutor

California State University, Chico

📅 08/2021 - 12/2021

- Tutor and assist students in a variety of Computer Science courses such as Web Programming Fundamentals, Algorithms and Data Structures, and Compilers.

CLUBS & ORGANIZATIONS

- **Upsilon Pi Epsilon Honor Society** - Chico State Chapter
 - Officer (Secretary)

SKILLS

- Over 3 years of **C++** and **Python** experience through coursework.
- Experience in **Web Development** with Django, Foundation 6, and GCP through coursework and with Node.js, Three.js, and Github Pages with personal website.
- **Agile practices** through Software Engineering course, including Scrums, Sprints, User Stories, and Kanban Board.
- **Unit testing** with Travis CI and Coveralls through Software Engineering coursework.
- **Shared-memory and Direct-memory Parallel programming** with OpenMP, POSIX Threads, and MPI.
- **Infrastructure as code** with Ansible and Puppet experience through coursework.
- Strong leadership skills with experience training/teaching others.
- **Technologies I've worked with:** C, C++, Python, Rust, Dart, JavaScript, Node.js, Three.js, SQL, Ansible, Puppet, Bash, Java, R, HTML, CSS

PROJECTS

Keycap Vision

Senior Capstone Project

📅 08/2021 - 12/2021

A Django based web app that uses artificial neural networks built with Keras/TensorFlow to identify mechanical keyboard keycap sets.

- Technology stack: Django, Foundation 6, Python, Keras/Tensorflow, HTML, CSS, Google Cloud Platform

Gunpla Station

CINS 465 Web Development Project

📅 06/2021 - 07/2021

A website that allows users to create a profile for managing Gundam Plastic Model Kit (Gunpla) projects and for socializing with fellow Gunpla hobbyists.

- Technology Stack: Django, Foundation 6, Python, HTML, CSS, Google Cloud Platform

Portfolio Website

Personal Project

My personal portfolio website built with HTML, CSS, vanilla JavaScript, and the Three.JS library for 3D rendering.

- Technology Stack: JavaScript, HTML, CSS, Three.JS