

# Josue Franco

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Github: <https://github.com/jifranco>

## SUMMARY

Highly motivated and results-oriented aspiring software engineer with a B.S. in Physics (Top 3 Graduate). Leverages strong problem-solving and analytical skills honed through physics research (e.g., Dark Energy Survey) and self-taught coding experience (extensive portfolio on GitHub). Proven ability to excel in collaborative environments (classroom management, IT support) and a passion for applying technical knowledge to create innovative solutions (e.g., improving student IT literacy by 40%).

## SKILLS

- **Program Languages:** Python, Verilog HDL, HTML, CSS, Javascript, LaTeX, SQL
- **Libraries:** Numpy, Panda, Matplotlib
- **Platforms:** Visual Studio Code, Jupyter Notebook, Vivado Design Suite (Xilinx), Overleaf, Oracle
- **Misc:** DataStructures/Algorithms, Information Technology, Data Analysis, Data Management, Unit Testing, Programming Languages

## EDUCATION

**California State University, Stanislaus | Bachelor of Science in Physics**

Sept. 2023-May 2024

Top 3 in Physics BS graduates

**Merced College | Associates in Physics**

Aug. 2018-June 2020

## EXPERIENCE

**Substitute Teacher**

Oct 2023 - Present

Merced County Office of Education | Merced, CA

- Managed classroom activities and facilitated learning experiences tailored to meet the unique needs of Special Education students, leading to a 30% increase in student engagement and participation levels..
- Collaborated with a multidisciplinary team to develop customized Individualized Education Program (IEP) goals for Special Education students in grades K-5, resulting in a 15% improvement in student academic performance.
- Collaborated with school administration and support staff to implement behavior management strategies for students with challenging behaviors, resulting in a 30% reduction in behavioral incidents.

**Information Technology Assistant**

Sept 2022 - Oct 2023

Le Grand High School District | Le Grand, CA

- Supported a network of over 200 student devices by troubleshooting connectivity issues and ensuring adherence to network protocols (TCP/IP, DNS).
- Collaborated with teachers and staff to provide technical training sessions, improving overall IT literacy among the school community by 40%.
- Became proficient in a wide range of software programs and hardware platforms through continuous training, able to provide assistance for any issue.

**After-School Instructor**

Jan 2018 - Jan 2022

Golden Valley High School/California Teaching Fellows Foundation | Merced, CA

- Tutored students in a 1:1 setting to improve grades and confidence in academic subjects, averaging a grade increase of 2 letter grades per student
- Successfully managed a classroom of up to 30 students at a time while still providing quality individualized instruction

## PROJECTS

**Portfolio Website**

Built a personal portfolio website using HTML, CSS, and JavaScript to effectively display my work and enhance my job prospects. The website utilizes responsive design techniques to ensure optimal viewing across various devices.

Code: <https://github.com/jifranco/Personal-Portfolio> Hosted: <https://jifranco.github.io/>

**Dark Energy Survey Year 3 | UCSC**

Leveraged image analysis to refine the redMaPPer cluster finder for the Dark Energy Survey (DES). Analyzed and adjusted over 100 galaxy cluster images, leading to the identification of 10-20% of miscentered clusters and pinpointing the root causes. My work on scaling relations between X-ray properties and cluster richness directly contributes to more precise galaxy cluster identification in the DES.

- Arxiv report: <https://arxiv.org/abs/2310.13207>

## CERTIFICATIONS

**Coursera | Google IT Support**

June 2023

Completed five-courses, developed by Google, that included hands-on, practice-based assessments and are designed to prepare for entry-level roles in IT support. Became competent in foundational skills, including troubleshooting and customer service, networking, operating systems, system administration, and security.

**FreeCodeCamp | Front End Development Certification**

Aug 2022

Combined time of 1500 hours completed between three courses, developed by FreeCodeCamp, that covers programming with HTML to React with labs and projects posted on my GitHub. Obtained three certifications: Responsive Web Design Certification, JavaScript Algorithms and Data Structures Certification, and Front End Development Libraries Certification