

Michael Rosalia

Security Clearance: Secret

Professional Summary

Six year US Navy Veteran(E-5) studying Computer Science with an emphasis in software and data engineering.

Projects

Financial Institution Processor

Aug 2024

Engineered a financial data processing system in Python, implementing an ETL pipeline that automates consolidation of transaction data, featuring custom validation rules, dynamic CSV parsing, and standardized output generation, resulting in improved data accuracy and processing efficiency.

Meditation and Breathing App

Nov 2023

Developed a Python meditation application (using Tkinter) facilitating Wim Hof breathing exercises. Features include seamless cycle management, real-time motivational messages via threading, and a user-friendly, customizable & responsive GUI.

Wordy Creation

Oct 2023

Created a desktop version (using Tkinter) of the Internet game Wordle, called Wordy, which uses event handlers to implement a graphical program using the MVC pattern.

Education

B.S. in Computer Science/Minor in Business Administration

May 2026

University of San Diego,
San Diego, CA

Relevant Coursework

Programming Abstractions and Methodologies(Data Structures),
Computational Problem Solving(Algorithms),
Introduction to Computer Systems,
Advanced Computational Problem Solving,
Data Science Foundations and Programming,

Extracurricular

Association for Computing Machinery (ACM) - Member
Society of Hispanic Professional Engineers(SHPE) - Member
Institute of Electrical and Electronics Engineers(IEEE) – Member

Relevant Skills

Programming Languages: C, Python, SQL, Java
Tools & Frameworks: Git/GitHub, Tkinter, Linux/UNIX, VIM, VS Code,
Jupyter, Anaconda

Experience

Financial Engineering Firm, APC

San Diego, CA

DATA ENGINEER INTERN

Summer 2024

- Designed and implemented custom financial data solutions to streamline accounting processes and enhance data accuracy.
- Optimized data workflows, resulting in a 70% reduction in manual processing time for financial reporting.
- Implemented data quality checks and reconciliation processes, ensuring complete accuracy in financial reports.

Forward Slope, Inc,

San Diego, CA

INSTALLATION ENGINEER

June 2021 - August 2022

- Conducted international site surveys for optimal system architecture.
- Installed sensor, communication, software, and other equipment in remote locations.
- Created detailed Microsoft Visio drawings and comprehensive documentation to include Critical Design Reviews.
- Developed recommendations on use of specific technologies and OEM equipment.

United States Navy

San Diego, CA

ELECTRONICS TECHNICIAN (E-5)

June 2015 – June 2021

- Led 16-person crew in RF troubleshooting operations on mission critical communications suites.
- Served as Combat Systems Training Team member.
- Trained personnel on electronics, casualty control, and electrical safety.
- Meritoriously promoted to E-5.