**Audrey Krishnadasan**

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**EDUCATION**

**University of San Diego | Shiley-Marcos School Engineering**  San Diego, CA

BS in Computer Science | Minor: Mathematics Expected Graduation: May 2025

**GPA:** 4.0

**PROJECTS AND RESEARCH**

**Weather Station Network Application** **|** *Project Lead* - CSpring 2024

* Reverse engineered a C program to implement the client side in a Client-Server network application using sockets to communicate over University of San Diego’s network
* Analyzed the client-server protocol via packet data to find server messages and ports using the Wireshark application

**Caesar Cipher |** *Project Lead* - Java Fall 2023

* Lead a team of two to create a program in java that takes user input of key values and a string to encode then efficiently encodes and decodes the message as output
* Revised and analyzed how to make the program more time efficient and user friendly

**AI Heart Disease Prediction Model |** Python Summer 2023

* Worked with esteemed Data Scientist/Professor at UPenn to visualize a dataset of over 300,000 data entries from the CDC using machine learning models with varying features to predict heart disease using google Co-lab
* Negated the notion that the binary physical activity feature improves the accuracy of heart disease prediction and called for a more robust method of measuring physical activity for medical research/data collection

**Police Dispatch Simulation |** *Project Lead* **-** JavaSpring 2022

* Designed a program that organized a large number “Incidents” to simulate a 911-dispatch organizational system
* Successfully minimized big-O time and space complexity as one of the only students who was able to get the program to process over a million data points.

**Simple Calculator |** Independent - Python Winter 2023

* Created a simple calculator interface that performs functions of the 4 basic arithmetic functions (+,-,\*,/) to provide an aesthetically clean, easy to use tool for users.
* Self-taught python through creation of interface to learn the workings of a GUI through Tkinter

**PROFESSIONAL EXPERIENCE**

**Occidental College |** *Teaching Assistant* Fall - Winter 2022

* Supervised and assisted over 40 students enrolled in Data Structures and Advanced Programming course hosting weekly office hours, answering course assignment inquiries and supporting faculty with grading
* Specialized in teaching debugging techniques through verbal explanation and leading students to debug their own programs with little guidance

**Elysian One/Softball University|** *Coach/Trainer* 2020 – 2023

* Lead 200+ young players through drills and organized rotations over a three-hour session, worked with players on essential team dynamics such as leadership, how to be a good teammate, and communication
* Communicated player progress reports and successfully navigated player discipline issues with parents and guardians

**SKILLS**

**Relevant Coursework:** Networking, Embedded Software Development, Advanced Computational Problem Solving, Intro to Computer Systems, Real Analysis, Computer Organization, Data Structures, Advanced Programming

**Programming Languages:** Java, C, Python, C++, JavaScript, MIPS assembly, SQL

**Systems/IDEs:** Unix, VIM, Eclipse, VSCode, Jupyter Notebooks

**LEADERSHIP EXPERIENCE**

**Theta Tau Professional Engineering Fraternity** | *Member*  Spring 2024 -Present

**Pi Beta Phi Fraternity** | DEI Committee Spring 2024-Present

**Society of Women Engineering (SWE)** | *Member* Fall 2023-Present

**Association for Computing Machinery (ACM)** | *Member*  Fall 2023-Present

**Varsity Softball** | *Captain, Tiger ACTION Coordinator* Fall 2021-Spring 2023