Epifanio Solano Jr., Software Engineer

(646) 991-8063 | eppysolano@gmail.com | San Diego, California
LinkedIn | GitHub

SUMMARY

I thrive on curiosity, effective communication, and attention to detail. My passion lies in diving into mysteries, constantly learning, and gaining that "a-ha!" moment when the big picture emerges. I excel in researching and questioning to ensure I'm prepared with answers. I take action by leveraging my insights to devise strategic plans and collaborate with others to bring them to fruition.

EDUCATION

Bachelor of Science in Computer Science — *California State University San Marcos*
*Expected Graduation Spring 2025

SKILLS

Python Programming	Data Structures and Algorithms	Flask Framework
C++ Programming	Computer Security	Pandas
Cloud Computing	Network Security	Matplotlib

PROJECTS

Network Scanner: Created a simple Network/Port Scanner as a group project for a Network Security course.

- Designed and implemented the Graphical User Interface using Tkinter, Python's standard GUI toolkit.
- Implemented a python script that creates a TCP connection to an IP/Hostname and scans for potential open threats.
- Optimized the Port Scanner using Threads library to have scans running concurrently for efficient performance.

StockWatchList: Created a serverless CRUD application developed to help users manage a watchlist of stocks by adding symbols and desired prices, updating or deleting entries, and receiving notifications when a stock reaches the specified price. The project was designed to leverage several modern technologies and cloud services to ensure scalability, flexibility, and ease of deployment.

- Flask: The backend of the application is built using Flask, a lightweight Python web framework. Flask provides the foundation for routing, handling requests, and managing user interactions with the watchlist. It also integrates seamlessly with other services and tools used in the project.
- AWS (Amazon Web Services): AWS services play a critical role in the StockWatchList application. The application is deployed on AWS Lambda, which enables serverless computing, allowing the backend logic to run in response to HTTP requests without the need to manage servers. AWS DynamoDB is used as the database to store and retrieve stock information, ensuring high availability and scalability.
- Serverless Framework: The Serverless Framework is used to manage the deployment of the application on AWS.
- Docker: Docker is used to containerize the application, ensuring that it runs consistently across different environments. This helps in local development, testing, and deployment.

Snake-Game: Created the classic Snake game utilizing Python and the Tkinter library.

- Players control the movement of the snake using arrow keys, aiming to consume as much food as possible without colliding with obstacles.
- The game keeps track of the player's score, increasing each time the snake consumes a food pellet.
- When the snake collides with walls or itself, the game ends, displaying a "Game Over" message along with the final score.
- Food pellets are randomly generated on the grid, providing a constant challenge for the player to reach them.

Ad Analysis: Utilizing Python and the Pandas, Matplotlib libraries, I conducted an in-depth examination of ad clicks data to evaluate the performance of two distinct ad campaigns, namely Ad A and Ad B.

- Analyzed ad clicks data to evaluate the efficacy of advertising platforms.

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- Conducted comparative analysis between Ad A and Ad B to determine their respective performance metrics.
- Utilized data visualization techniques to illustrate performance trends and patterns over time.
- Generated comprehensive reports outlining findings and recommendations for campaign optimization.

WORK EXPERIENCE

Master at Arms — U.S. Navy (E-5) December 2013 — April 2019

Coronado, California

- Led and supervised teams of up to 35 personnel in daily operations of Random Anti-Terrorism Measures and security procedures to ensure safety and security of the U.S. Naval facilities.
- Facilitated on-the-job training and development of 30 security personnel and Department of Defense officers in job-related procedures, ensuring they were equipped with the necessary skills and knowledge to perform their duties effectively, enhancing the sections' mission readiness by 20 percent.