Jonathan Silva

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EDUCATION

Union College of Union County. NJ – Cranford, NJ   **May 2025**

AS Computer Science   *GPA 3.8*

- **Relevant Coursework:** Data Structures & Algorithms, Systems Analysis & Design, Database Management, Object-Oriented Programming, Web Development, Cybersecurity Fundamentals, Networking Concepts

SKILLS & CERTIFICATIONS

- **Programing Languages:** Python, Java, JavaScript, C++, C#, SQL
- **Frameworks & Libraries:** Flask, SQLAlchemy, Pygame, Tkinter, TwilioAPI
- **Tools & Platforms:** Git, GitHub, Docker, Visual Studio Code, PythonAnywhere, AWS (Lambda, CloudWatch)
- **Operating Systems:** Linux, Windows, IOS
- **Other Skills:** Troubleshooting hardware/software, networking fundamentals, system configuration

WORK EXPERIENCE

Freelance Technical Support – Remote / On-Site   2015 – Present

- Provided computer troubleshooting for peers, resolving 100+ recurring hardware/software issues over 10 years.
- Installed, configured, and updated operating systems and productivity applications.
- Researched and implemented solutions for performance, networking, and security problems.
- Delivered clear, non-technical explanations to users, improving understanding and long-term system usability.

Dollar General, Elizabeth, New Jersey

Shift Leader   May 2024 – Present

- Operated point-of-sale (POS) systems to handle transactions and manage daily cash balancing
- Assisted customers with product inquiries, returns, and resolving issues in a fast-paced retail environment
- Supported inventory management by scanning, stocking, and organizing merchandise
- Trained 5+ new employees in store operations and technology systems.
- Entrusted with opening/closing responsibilities due to attention to detail and reliability.

PROJECTS

To-Do List CRUD App ("Task Killer") – *Python, Flask, SQLAlchemy, SCSS*

- Built a full-stack CRUD application enabling users to create, update, and delete tasks.
- Designed a clean, responsive interface with SCSS (Sass) for modular and maintainable styling.
- Implemented SQLAlchemy for database modeling, queries, and persistent task storage.
- Deployed the application on PythonAnywhere, gaining hands-on experience with hosting, deployment, and server configuration.

Weather Alert & Outfit Recommendation App – *Python, TwillioAPI, AWS*

- Developed a program that sends daily SMS alerts with weather forecasts and clothing recommendations.
- Integrated OpenWeatherMap API for real-time location-based data.
- Automated delivery using AWS Lambda and CloudWatch, eliminating the need for dedicated servers.

Side-Scrolling Runner Game

- Designed a 2D endless runner game with character movement, gravity physics, and jump mechanics.
- Implemented collision detection, score tracking, and dynamically generated obstacles.
- Added start, pause, and game-over screens for enhanced player experience.

CERTIFICATIONS

- AWS Certified Cloud Practitioner (In Progress)