

# Samuel Diaz

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## PROFESSIONAL EXPERIENCE

### Programs Management Analytics and Technologies (PMAT), Inc.

San Diego, CA [Hybrid]

#### Software Engineer – Ship Self Defense System (SSDS)

May 2023 - Present

- Engineered advanced software solutions for DoD naval platforms, with a focus on the Ship Self Defense System (SSDS).
- Key contributor in a team, delivering three major software releases with a 95% on-time delivery rate across all projects.
- Adapted to new technologies under tight deadlines to meet PMAT's evolving needs, reducing development time by 15%.
- Identified, documented, troubleshoot, and resolved 10+ intricate bugs, significantly improving system performance.
- Managed 15+ complex code merges and ensured quality through rigorous testing, achieving a 95% conflict resolution rate.

## TECHNICAL SKILLS

**Languages:** Python, Java, C++, R, HTML, CSS, JavaScript, SQL, SAS

**Libraries/Frameworks:** requests, scikit-learn, nltk, mysql-connector/J, JavaFX, jQuery, Ajax, Angular, XML, JSON, APIs, DOM

**Software Tools:** Linux, Git, Jira, Docker, Agile/SCRUM, Jenkins (CI/CD), AWS (EC2, S3, Redshift, Lambda), Tableau

**Cybersecurity:** Network design and implementation, VPN/Firewall config, IDS/IPS, SIEM, Ethical Hacking

## EDUCATION

### MS, Cybersecurity Management

San Diego, CA

San Diego State University

2026

### BS, Computer Science

Salt Lake City, UT

Western Governors University

2024

### BSBA, Information Systems [Cum Laude]

San Diego, CA

San Diego State University

2022

## CERTIFICATIONS

**Data Science Advanced Certificate** – San Diego State University

(Expected) 2025

**AWS Academy: Cloud Foundations, Cloud Security Foundations, Cloud Operations** – Amazon Web Services (AWS)

2024

**Linux Essentials** – Linux Professional Institute

2024

**CompTIA Security+** – Computing Technology Industry Association

2024

## PROJECTS

### Package Delivery Algorithm – Combinatorial Optimization

- Designed a system using the nearest neighbor algorithm for route optimization.
- Implemented a hash table for efficient package management, ensuring timely deliveries and system scalability.

*Relevant Skills: Greedy Algorithms, Time Complexity, Python, CSV file extraction, Data Structures, Algorithm Design, Scalability*

### Web Data Scraper for Analytics – Natural Language Processing (NLP)

- Enhanced text processing and speech recognition applications.
- Used Python and NLTK for extracting and analyzing text from web data, applying core computational linguistics concepts.

*Relevant Skills: APIs, Python, requests module, nltk library, NLP, regex, XML, Web Data Scraping, ETL, sentiment analysis*

### Appointment Scheduler – Data Management Systems

- Managed customers and appointments through an interactive UI that connects to the business database.
- Implemented exception controls, time zone adjustments, and activity tracking; generated detailed reports.

*Relevant Skills: Full Stack Development, XML, UI/UX design, Java, JavaFX, MySQL, SQL queries, stored procedures, mysql-connector/J*