

## MANNY ALARCON

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### EDUCATION

#### GEORGE MASON UNIVERSITY - College of Engineering and Computing

Expected Graduation – May 2026

B.S. in Information Technology - Cybersecurity

Cumulative GPA: 3.5/4.0

Dean's List 2024, 2025

**Relevant Coursework:** Python Programming, Intro To Engineering, Java Programming, Computer Programming, Intro to Electrical/Computer Engineering, C Programming For Engineers, Linux System Admin, Telecommunications, Computer Hardware & Troubleshooting, Microcomputer OS, PC Hardware & OS Architecture.

### WORK EXPERIENCE

#### DEPARTMENT OF STATE

Fairfax, VA

*Engineering Intern*

May 2024 – Aug 2024

- Developed and deployed an information-oriented application for U.S. expatriates in Turkey using PowerApps and Azure SQL databases.
- Managed and maintained Cisco networking systems, Linux servers, and encrypted radio communications across multiple embassy departments.
- Conducted IT infrastructure maintenance, software debugging, and network security enhancements utilizing Docker, Kubernetes, virtual machines, and batch scripting.

#### CONTINUUM BEHAVIORAL HEALTH

Fairfax, VA

*Registered Behavioral Technician*

Oct 2024 – Present

- Utilize behavioral tracking software to log patient progress and analyze patterns in therapy outcomes.
- Assist in data collection and reporting, ensuring accurate documentation of therapy sessions and adherence to HIPAA compliant record-keeping.

#### STUDYHOUSE EDUCATION

Fairfax, VA

*STEM Tutor*

Oct 2024 – Present

- Provided technical tutoring in Calculus, Computer Science, and Biology, focusing on problem-solving strategies and real-world applications.
- Developed custom study plans and digital resources, integrating online learning tools to enhance engagement and retention.

### PROJECTS

#### MISSION TURKIYE GUIDE

2024

- Developed an interactive mobile guide for U.S. expatriate diplomats in Turkey, allowing users to locate emergency services, embassies, and recommended local businesses.
- Integrated Microsoft PowerApps with Azure SQL databases, enabling real-time cloud storage and dynamic data retrieval.
- Designed the UI/UX interface to enhance accessibility and efficiency, facilitating seamless search and navigation functionalities for end users.

#### CHESS-CLI APP

2025

- Engineered a Command Line Interface Chess application for Unix-like operating systems utilizing Java, implementing a robust game state management system and facilitating real-time board rendering and piece movement validation.
- Developed a multi-level Artificial Intelligence (AI) with adjustable difficulty settings, employing algorithmic strategies ranging from a basic move generator to a minimax algorithm for optimized decision-making and complexity.
- Architected a modular and extensible codebase to enable future enhancements demonstrating adherence to object-oriented programming principles and design patterns for maintainability and scalability.

#### GLOBAL GOVERNMENT SPENDING

2025

- Cleaned and transformed over **30,000** data points using Python (Pandas), resolving missing values, standardizing formats, and computing per capita and GDP-percentage metrics.
- Built **15+** visualizations with Matplotlib to compare spending trends and highlight disparities across sectors and regions.
- Identified top **10** countries in both absolute and percentage-based spending, enabling focused comparative insights for policymakers and academic review.

### SKILLS

**Technical:** Proficient in Java, Python, C, C++, SQL, TypeScript, JavaScript, CSS, bash, R, SQL, Excel, Microsoft Word, Git, Microsoft Azure, MongoDB, MySQL, Tailwind CSS, VSCode, KVM, Windows, MacOS, Linux, RedHat.

**Strengths:** collaborative, dedicated, fast-learner, tech-savvy, adaptable, communicative.