

# OMAR A. GARCIA JR.

New Braunfels, TX | (830)-660-4560 | omaragarciajr@outlook.com

[LinkedIn](#) | [GitHub](#) | [Portfolio](#)

## EDUCATION

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Texas State University, San Marcos, College of Science and Engineering

B.S. Computer Science, Applied Mathematics Minor

Expected Dec 2026

**Relevant Coursework:** Data Structures and Algorithms, Object-Oriented Programming, Internet Software Development

## TECHNICAL SKILLS

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**Languages:** C++, C, Java, Python, JavaScript

**Software and OS:** Visual Studio Code, Jupyter Notebook, Git, Linux, Vim

**Additional:** React, HTML, CSS, XML Parsing, TCP/IP

## PROJECT EXPERIENCE

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**Computer Vision Fitness Tracker**, Full Stack Developer | *Individual*

Aug 2025 – Dec 2025

- Built an end-to-end real-time fitness tracker using YOLO11 pose estimation and LSTM action classification for automatic exercise detection.
- Engineered automated rep counter and form feedback engine supporting squats, push-ups, jumping jacks, lunges, and planks.
- Integrated GPU acceleration for NVIDIA CUDA and Apple Silicon MPS for performance-optimized inference.

**Alio**, Backend Developer | *Team of 5*

Aug 2025 – Dec 2025

- Built FastAPI backend with Server-Sent Events streaming, forwarding LLM tokens in real-time from a self-hosted Ollama instance.
- Implemented API key authentication and per-IP rate limiting to secure the team's shared development endpoint.
- Self-hosted Gemma 3 4B on personal hardware and exposed it to the team over the local network throughout the project.

**Text Steganography**, Full Stack Developer | *Team of 4*

Aug 2025 – Dec 2025

- Implemented AES-256 key embedding within ciphertext, eliminating out-of-band key exchange for passwordless decryption.
- Designed XOR hashing layer combining message content with a secret key for additional obfuscation over the ATSteg encoding.
- Built file save/load system to preserve invisible zero-width Unicode characters across platforms for reliable message transfer.

**IoT Sentinel GUI**, Frontend Developer | *Team of 4*

Jan 2024 – May 2024

- Developed a web application using React with Typescript, HTML, CSS, and Accuweather API with an easy-to-use user interface while utilizing a Model View Controller (MVC) design pattern to maintain the structure of the project directory.

## PROFESSIONAL EXPERIENCE

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**Front Desk Associate**, Schlitterbahn Waterparks & Resort | New Braunfels, TX

May 2025 – Aug 2025

- Delivered high-quality guest service by managing check-in and check-out operations, addressing guest inquiries, and resolving service issues.
- Utilized hotel management systems to process reservations and maintain accurate records while collaborating with team members to support efficient operations and a positive guest experience.

**Armorer**, United States Marine Corps | Oceanside, CA

Jun 2019 – Aug 2020

- Managed accountability, maintenance, and security of sensitive weapons systems and equipment.
- Maintained detailed records using inventory and tracking systems, ensured compliance with safety and operational standards, and supported unit readiness through accurate inspections and equipment management.

**Tactical Transmissions Operator**, United States Marine Corps | Oceanside, CA

Aug 2016 – Aug 2020

- Operated and maintained tactical radio and satellite communication systems to ensure secure and reliable voice and data transmission in field and operational environments.
- Managed communication networks, performed equipment troubleshooting and maintenance, and ensured mission-critical connectivity under high-pressure conditions.
- Coordinated with unit leadership to support operational planning and execution while maintaining strict accountability of sensitive equipment.

**Single Marines Program Coordinator**, United States Marine Corps | Oceanside, CA

Mar 2019 – Jun 2019

- Coordinated programs and events supporting Marine Corps personnel, managing logistics, communications, and participation to promote engagement and morale.
- Collaborated with leadership and utilized organizational systems to track activities, allocate resources, and ensure successful program execution.

**Cabinet Installer**, Danenberg Designer Kitchens | Lafayette, LA

Sep 2015 – Jul 2016

- Installed residential cabinetry with precision, interpreting design plans and measurements to ensure proper fit and alignment.
- Utilized power tools and installation equipment while collaborating with team members to complete projects efficiently, maintain safety standards, and deliver high-quality finished work for clients.