

Antonio Corona Montes De Oca

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EDUCATION

Millersville University | Millersville, PA

Bachelor of Science in Computer Science

May 2026

Relevant Courses:

- Software Engineering
- Artificial Intelligence
- Programming Languages
- Database Systems
- Web Application Development
- Data Structures
- Operating Systems
- Data Analytics & Visualization

TECHNICAL SKILLS

Languages: Python, JavaScript, Java, C++, SQL, C, OCaml

Frameworks/Tools: Flask, Node.js, Express, Git

Databases: PostgreSQL, MongoDB

Concepts: Data Structures, Algorithms, Object-Oriented Programming, REST APIs, Full-stack Development, CRUD Applications, API Integration, Agile Development, Iterative Development, Software Testing, Client-Server Architecture, State Management

SOFTWARE PROJECTS

Maverick Course Scheduler (Python, Z3, Flask, AI)

github.com/Maverick

- Developed an interface and tools around a constraint-based scheduling system using the Z3 theorem prover
- Integrated and configured a provided solver library to generate academic schedules under defined constraints
- Designed and applied optimization rules for faculty assignments and classroom utilization
- Built CLI tools and a Flask web interface for generating and viewing schedules
- Collaborated in an Agile development environment using Git/GitHub, iterative sprints, and continuous integration

X-Industries — Amazon 2.0 E-Commerce Platform (Node.js, Express, MongoDB)

github.com/X-Industries

- Developed a full-stack e-commerce platform with authentication, product catalog, and order management
- Designed and implemented RESTful APIs with MongoDB to support full CRUD operations
- Managed client-server data flow and dynamic frontend components for shopping cart and order workflows

Job Tracker Web Application (JavaScript, HTML, CSS, localStorage)

github.com/Job-Tracker

- Built a job tracking application with full CRUD functionality & persistent client-side storage
- Implemented filtering, sorting, dashboard analytics, and status tracking for job search management
- Designed a responsive UI with status badges, interactive cards, and dynamic sorting
- Used localStorage to persist application data across browser sessions

Web Games Collection (Nine Men's Morris + More) (JavaScript, HTML, CSS)

github.com/Web-Games

- Developed interactive browser-based games using event-driven programming and dynamic DOM manipulation
- Designed responsive UI components and persistent game statistics using localStorage

LANGUAGES

Spanish: Native, Read, Write, & Translate

English: Native, Read, Write, & Translate

NOTABLE EXPERIENCE

Coding Club | Millersville, PA

Member

October 2022 – Present

- Participate in collaborative coding activities and expand programming skills through peer learning

Marauder Fund | Millersville, PA

Member

February 2023 – May 2025

- Collaborated with peers to analyze investment opportunities and develop financial decision-making strategies

Robotics Club | Millersville, PA

Member

August 2023 – May 2025

- Contributed to hands-on projects involving robotics design, problem-solving, and teamwork

Cyber Defense Club | Millersville, PA

Member

October 2022 – May 2024

- Explored cybersecurity concepts, including threat detection, system vulnerabilities, and defensive strategies

Club Tennis | Millersville, PA

Founder, President, & Head Coach

February 2023 – Present

- Founded and lead the university Club Tennis program, organiz practices, matches, and team operations
- Manage team coordination, scheduling, and communication with the university and external organizations
- Develop leadership and coaching skills while growing and sustaining an active student organization

PROFESSIONAL EXPERIENCE

Millersville University Athletic Club Website (Contract) | Millersville, PA

Web Developer (*Independent Contractor*)

February 2026 – Present

- Designed and developed a multi-page website for a university tennis club using HTML, CSS, and JavaScript
- Built a reusable component-based architecture with dynamic header and footer injection across all pages
- implemented a centralized configuration system to manage site-wide content (contact info, social links, branding)
- Developed an interactive homepage including an image slideshow with auto-rotation and manual navigation controls
- Created responsive UI sections, including hero banner, facilities overview, FAQ preview, and officer profiles
- Structured scalable page templates to streamline development of additional site pages
- Collaborated with clients to align design and functionality with organizational needs

Resident Assistant (*Millersville University | Millersville, PA*)

August 2023 – Present

- Foster a supportive residential community by organizing events and facilitating engagement among student groups
- Resolve resident concerns and conflicts through effective communication, problem-solving, and policy enforcement
- Collaborate with housing staff to ensure a safe, inclusive, and well-managed living environment

DoorDasher (*Independent Contractor | Lancaster, PA*)

January 2022 – Present

- Manage scheduling and delivery operations while maintaining high efficiency and time management
- Provide consistent customer service by ensuring accurate, timely deliveries and resolving issues
- Demonstrate accountability and reliability in a self-directed work environment with minimal supervision

Tennis Coach (*Yacta | Hanover, PA*)

March 2019 – September 2023

- Coached and mentored athletes ages 6–14, emphasizing skill development, teamwork, and sportsmanship
- Planned and led structured training sessions tailored to varying skill levels and learning styles
- Coordinated with parents, staff, and club leadership to support player development and program success