

Ivan Armenta

(575) 915 - 5602 | iarmenta@miners.utep.edu | linkedin.com/in/iarmenta | github.com/armenta-i

EDUCATION

The University of Texas at El Paso

Graduating December 2025

Bachelor of Science in Computer Science

GPA: 3.98/4.0

Relevant Coursework: Data Structures and Algorithms, Databases, Operating Systems

El Paso Community College

May 2022

Associate of Science in Computer Science

GPA: 3.9/4.0

EXPERIENCE

Novamex: Software Engineer Intern

June 2025 - August 2025 | El Paso, Texas

- Built a React app allowing sales employees to monitor sales metrics, reducing manual searches.
- Migrated sales data from legacy SQL to Snowflake by implementing a Python ETL pipeline with Pandas.
- Deployed React application on IIS with a reverse proxy, enabling browser access in a legacy environment.
- Optimized API performance by implementing server-side pagination and caching.
- Reduced API response time by over **85%** (from 1200ms to 150ms) and payload size by **99%**.

Hiller Measurements: Software Engineer Intern

Dec 2023 - May 2024 | El Paso, Texas

- Designed Proteus ATE application reducing rack design and development time by **70%**.
- Worked with the founding engineering team under Agile processes to develop and ship the Proteus ATE app.
- Developed Python microservices to automate test rack configuration, cutting placement errors by **50%**.
- Created interactive 3D viewer using Three.js and NXOpen automating **100%** of steps of model generation.

Novamex: Information Technology Intern

May 2023 - August 2023 | El Paso, Texas

- Optimized IT ticketing system by using workflow automation, improving resolution efficiency by **10%**.
- Maintained system performance by automating software updates, data backups, and user access management.

PROJECTS

Docker Exploit Manager (DEM)

- Created Svelte application that streamlined Docker container exploit assessments for DEVCOM testers.
- Integrated automated security tools (Trivy, Gype, and Dockle) to scan containers for vulnerabilities.
- Developed an interactive topology map using Docker API, Nmap, and Neo4j for container discovery.
- Implemented a secure TCP connection to a specified IP address for sensitive container data retrieval.
- Automated penetration test on containers using Metasploit to indentify and exploit vulnerabilities.

Health Routes

- Developed a React Native health app enabling users to find nearby healthcare facilities.
- Optimized app for low bandwidth conditions to run in **20–50 Mbps** environments common in rural areas.
- Built live navigation and smart routing powered by the Google Maps Places API.
- Integrated Supabase for user authentication and database management, enabling secure data storage.
- Created a web scraper to fetch and display detailed hospital information, including rating and contact details.

UniJob

- Developed full-stack application to facilitate job matching between **500+** students and school departments.
- Built a scalable interface with dashboards, enabling efficient management of department-wide applications.
- Integrated an advanced search tool to quickly locate applications using in-app indexing.

TECHNICAL SKILLS

Languages: Java, Python, SQL, JavaScript, TypeScript, HTML, CSS

Frameworks: Bootstrap, React, React Native, Svelte, Pandas, Tailwind CSS, FastAPI, SQLAlchemy, Expo

Developer Tools: Git, GitHub, VMware, Linux, Snowflake, NoSQL, PostgreSQL, MySQL, Docker, Supabase