Aredth Sanchez

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Education

The University of Texas at El Paso — El Paso, TX

B.S. of Engineering in Computer Science; Concentration in Data Analytics, Minor in Mathematics — *Expected: 2028*

- **Major GPA:** 4.0/4.0 – **Honors & Awards:** Dean's List; Fall 2024, Spring 2025, Fall 2025
- **Relevant Coursework:** Elementary Data Structures & Algorithms, Computational Thinking, Discrete Structures 2, Calculus 2
- **Related Clubs:** Coding Interview Club (CIC), ColorStack, CodePath, Association for Computing Machinery (ACM), Society of Hispanic Professional Engineers (SHPE)

Experience

Tech Exchange Fellow — Jan 2026 - Present

CodePath — *Remote*

- Selected for competitive college-accredited CodePath program focused on software engineering practices
- Building production-level projects while receiving mentorship from former FAANG engineers
- Developing technical interview skills through industry focused coursework in data structures and system design

Software Developer Intern — May 2025 – July 2025

El Paso Water — *El Paso, TX*

- Built Azure Virtual Agents using Microsoft Azure and Azure AI services, integrated structured knowledge bases (PDFs, SOPs) and created Azure AI Search index schemas using JSON to enable natural language retrieval of documentation like rainfall measurement data and drainage system design manuals. Supported internal automation reducing manual work by 70%, and enhanced customer-facing AI interactions.
- Automated workflows with Power Automate, SharePoint, and Python, managed and updated Azure Search Agent knowledge bases in real time to ensure virtual agents delivered current and accurate content.
- Collaborated with cross-functional Agile teams to gather requirements, conduct user interviews, and implement backend automation, enhancing virtual agent accuracy, scalability, and operational efficiency.

Software Engineer Fellow — May 2025 – June 2025

Cornell Tech — *Remote*

- Selected from over 3,000+ applicants for the Break Through Tech Sprinternship™ program. Worked under the mentorship of professional data scientists and software engineers to gain hands-on experience with real-world technical projects and strengthen industry readiness early in my computer science education.
- Completed technical training modules n Data Structures, Machine Learning, JavaScript, Python, and Git through Cornell University's online training platform (Canvas).
- Participated in industry-style technical and behavioral mock interviews with Software Engineer mentors to strengthen industry skills.

Projects

Portfolio Website | *React, Tailwind CSS, JavaScript, HTML, CSS*

- Developed a responsive portfolio website to showcase projects, technical skills, personal interests, and accomplishments
- Built interactive project cards and smooth navigation using React components
- Applied Tailwind CSS to create a modern, mobile-friendly design with dynamic styling

AutoPay: Automated Invoice & Payment System | *Java, Spring Boot, React, MySQL, Tailwind CSS*

- Developed a Java-based full-stack invoice management system using Spring Boot, MySQL, and a web interface built with HTML, CSS, and JavaScript. Users can create, view, and manage invoices through a responsive GUI.
- Automated invoice generation, website calls clients via Twilio IVR to collect payment details, integrating real-time voice interactions with backend processing to simplify billing and reduce manual workload.

Pokemon Clash Game | *Java, Linux Bash Terminal, Git*

- Built a text-based Pokémon game in Java with a menu-driven interface, featuring object-oriented design across Pokemon, Trainer, and Region classes to simulate dynamic team management and wild encounters.
- Implemented robust file parsing, input validation, and array-based data structures to handle user interactions, error handling, and in-game operations such as capturing Pokémon, viewing stats, simulating fights, and managing trainer teams.

Technical Skills

Languages: Python, Java, JavaScript, C++, HTML/CSS; **Frameworks**: React, Spring Boot, Flask, Node.js; **Libraries**: Pandas, NumPy, Matplotlib, Scikit-learn; **Tools/OS**: Git, Github, Docker, MySQL, Excel, Vim, VS Code, Pycharm, IntelliJ, Jupyter Notebook, Linux