Adalberto Vazquez Villalobos

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EDUCATION

The University of Texas at El Paso   Expected Graduation: Dec 2025
BS in Computer Science with a concentration in Data Analytics, Minor in Mathematics and Management   GPA. **3.96**/4.00
Relevant Coursework:

> CS: Data Structures, Automata, Software Development Studio, Applied Data Structures and Intro to Product Management
> MATH: Discrete Mathematics, Matrix Algebra, Multivariable Calculus and Probability and Statistics

Skills:

> **Java** (2yr)**, Python** (2yr)**, JavaScript** (1yr)**, GitHub**(1y)**, HTML** (1yr)**, CSS** (1yr)**, NodeJS** (3m)**, SQL**(3m)**, React**(3m)**, MySQL**(3m)
> Bilingual in English and Spanish (proficient)

WORK EXPERIENCE

Microsoft; *Intern – Redmond, Washington*   *May /2024 - Present*

- Developed **comprehensive functional and design specifications** for the a feature on the **privacy dashboard**, collaborating with fellow interns and ensuring clarity and alignment with project requirements.
- Led the creation of a detailed design document to guide the implementation phase, facilitating a **smoother integration** and **clear communication** with the team.
- **Implemented key features** for the privacy dashboard, continuously improving **code quality** and functionality based on **feedback from mentors**.
- Verified feature deployment to **100% GA** through **BI metrics** and conducted analysis of engagement to ensure the feature's success.

Google Tech Exchange Program; *Co-Op – Online/Mountain View, California*   *Jan/2024 – Present*

- Selected as one of the 180 students across 16 U.S. universities to participate in Google's "[Tech Exchange]()," a program designed to give access to cutting edge industry courses, including Applied Data Structures & Algorithms, Software Development Studio, and Product Management.
- Attend weekly classes, including **Software Development Studio**, **Applied Data Structures**, and **Intro to Product Management**, and complete projects across Tech disciplines including **data structures** and **algorithms** under **Googles** guidance for one semester.

Computer Science Department (UTEP); *Instructor Assistant – El Paso, TX*   *Aug/2023 - Present*

- Assist over **110** students as an Instructional Assistant for **Discrete Structures**, providing personalized guidance and enhancing understanding of complex concepts.
- Evaluate assignments, deliver constructive feedback, and lead customized study sessions, thereby facilitating the success of a diverse cohort of **110+** students in mastering Discrete Structures.

NASA's Jet Propulsion Laboratory (JPL); *Intern – Pasadena, California*   *Jun/2023 - Sep/2023*

- Developed a **Python** tool utilizing the **Seaborn** library to visualize performance changes in the **AMMOS** Mission Data Processing and Control System (**AMPCS**) across different versions.
- Implemented a data archival system, maintaining records in a **JSON** file on **GitHub** to store historical information across various versions of AMPCS.
- Managed **1M+** results of information per **query**, extensively working with the **Mars 2020 database** to validate the program.
- Reduced data retrieval time ~20x, enabling the team to access critical historical information within minutes and enhancing analysis and **decision-making** processes.
- Participated as a panelist in multiple **JPL NASA** events, engaging with an audience of over 200 NASA employees.

ACTIVITIES

Bloomberg HSI Tech Summit; *Active Member – Online/Nueva York, NY*   *Apr/2024 – Present*
- Engaged in private virtual and in-person events with **Bloomberg** engineers, and leaders during the 2024 HSI Tech Summit.
- Participated in resume and interview support, as well as mock **interviews** and coding sessions.

Yes, She Can! Student Organization; *Treasurer – El Paso, TX*   *Sep/2022 – May/2023*
- Plan details and agenda with the executive committee in weekly meetings for the 4 general meetings and 6 professional development workshops held each semester to present as a team to more than 80 members of the organization.
- Track funds, pay bills, collect money, and raise funds for the organization.

UTEP's Coding Interview Club; *Active Member – El Paso, TX*   *Aug/2022 – Present*
- Collaborated with Googlers and peers to develop technical **problem-solving** skills to prepare for coding interviews including Seattle data structures, algorithms, and communication skills.

Society of Hispanic Professional Engineers; *Active Member – El Paso, TX*   *Sep/2021 – Present*
- Contribute as an active member, participating in events and supporting **diversity** in engineering with an impact on around 168 members.

HONORS & AFFILIATIONS

- *NSF S-STEM Scholarship Recipient*   *May/2024 – Present*
- *University Honors Program (The University of Texas at El Paso)*   *Jan/2022 – Present*
- *Dean's list (The University of Texas at El Paso)*   *Jan/2022 – Present*
- *Margaret O. Herman Endowed Presidential Scholarship Recipient*   *May/2021 – Present*