

# HALIL HAMSCHO

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## EDUCATION

The University of Texas at Austin	Bachelor of Science in Mechanical Engineering Honors Certificate in Computer Science GPA: 3.98/4.00	December 2025
Relevant Course Work	Data Structures and Algorithms, Engineering Computational Methods, Elements of Web Programming, Elements of Software Engineering	

## TECHNICAL SKILLS

**Programming Languages:** Python, Java, JavaScript, HTML/CSS, SQL, PHP, MATLAB  
**Libraries/Frameworks:** Pandas, NumPy, Scikit-Learn, BeautifulSoup, Matplotlib, PyGame, MySQL, AJAX, jQuery, JUnit  
**Developer Tools:** Git, GitLab, VSCode, IntelliJ, Jupyter Notebook, SolidWorks, FEA

## PROFESSIONAL EXPERIENCE

Goldman Sachs – <i>Software Engineering Intern</i> ; Dallas, Texas	June 2024 – August 2024
<ul style="list-style-type: none"><li>Leveraged <b>Java</b>, <b>Cucumber</b> and <b>Behavior-Driven Development (BDD)</b> to create a robust regression testing framework from scratch</li><li>Developed and automated <b>JUnit</b> test cases tailored for automated execution on custom <b>GitLab CI/CD pipelines</b>, ensuring consistent, high-quality test runs with improved efficiency and coverage</li><li>Built a versatile testing framework encompassing <b>7 acceptance tests</b> with <b>35 unique step definitions</b> to handle various deployment environments</li></ul>	
Dell Technologies – <i>Supply Chain Intern</i> ; Austin, Texas	June 2023 – August 2023
<ul style="list-style-type: none"><li>Identified key areas for operations and process improvement by conducting a comprehensive review of containment strategies across international original design manufacturers (ODMs)</li><li>Streamlined containment processes by implementing <b>data-driven software solutions</b> that optimized Dell parts and component analysis</li><li><b>Demonstrated effective program management</b> by coordinating and tracking containment initiatives, ensuring on-time resolution and improving overall product transformation</li></ul>	

## LEADERSHIP EXPERIENCE

Society of Hispanic Professional Engineers - <i>Academic Development Director</i>	June 2021 – June 2023
<ul style="list-style-type: none"><li><b>Engineered and expanded</b> an extensive test bank that supported <b>200+ members</b>, enhancing academic development and providing essential resources to navigate academic challenges</li><li><b>Facilitated scholarship workshops</b> that successfully helped members earn over <b>\$30,000 in scholarships</b>, significantly reducing financial burden and driving academic success</li></ul>	

## PROJECTS

Discovering Hidden Culinary Gems – <i>Python</i>	May 2024
<ul style="list-style-type: none"><li><b>Led a comprehensive data analytics project</b> using the Yelp dataset, analyzing over <b>150,346 businesses</b> and applying clustering models (K-Means, DBSCAN, PCA) to uncover high-rated but underappreciated culinary gems</li><li><b>Cleaned, prepared and analyzed</b> real-word data using the scikit-learn library, applying silhouette scores to evaluate model effectiveness and delivering detailed, data-driven insights</li></ul>	
Scholar Sorter - <i>Python</i>	December 2023
<ul style="list-style-type: none"><li><b>Developed an automated web scraping tool</b> using Python and BeautifulSoup, targeting a major scholarship database to streamline and enhance students' scholarship discovery process</li><li><b>Engineered a keyword-based filtering algorithm</b> that efficiently parsed through over <b>1,000 scholarship entries</b>, enabling users to identify opportunities tailored to their unique backgrounds and academic needs</li></ul>	

## ADDITIONAL INFORMATION

**Awards:** Cockrell School of Engineering Distinguished College Scholar (2023-2024), Hispanic Scholarship Fund Scholar (2021-2024), HITEC Foundation Scholar (2023-2024), Lockheed Martin STEM Scholar (2024), Benjamin A. Gilman Scholar (2022)  
**Work Eligibility:** Eligible to work in the U.S. with no restrictions