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	May 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, Beautiful Soup, Matplotlib, PyGame, MYSQL, AJAX, jQuery, JUnit
Developer Tools: Git, GitLab, VSCode, IntelliJ, Jupyter Notebook, SolidWorks, FEA

PROFESSIONAL EXPERIENCE

Goldman Sachs – *Software Engineering Intern;* Dallas, Texas — June 2024 – August 2024
- Leveraged **Java**, **Cucumber** and **Behavior-Driven Development (BDD)** to create a robust regression testing framework from scratch
- Developed and automated **JUnit** test cases tailored for automated execution on custom **GitLab CI/CD pipelines**, ensuring consistent, high-quality test runs with improved efficiency and coverage
- Built a versatile testing framework encompassing **7 acceptance tests** with **35 unique step definitions** to handle various deployment environments

Dell Technologies – *Supply Chain Intern;* Austin, Texas — June 2023 – August 2023
- Identified key areas for operations and process improvement by conducting a comprehensive review of containment strategies across international original design manufacturers (ODMs)
- Streamlined containment processes by implementing **data-driven software solutions** that optimized Dell parts and component analysis
- **Demonstrated effective program management** by coordinating and tracking containment initiatives, ensuring on-time resolution and improving overall product transformation

LEADERSHIP EXPERIENCE

Society of Hispanic Professional Engineers - *Academic Development Director* — June 2021 – June 2023
- **Engineered and expanded** an extensive test bank that supported **200+ members**, enhancing academic development and providing essential resources to navigate academic challenges
- **Facilitated scholarship workshops** that successfully helped members earn over **$30,000 in scholarships**, significantly reducing financial burden and driving academic success

PROJECTS

Discovering Hidden Culinary Gems – *Python* — May 2024
- **Led a comprehensive data analytics project** using the Yelp dataset, analyzing over **150,346 businesses** and applying clustering models (K-Means, DBSCAN, PCA) to uncover high-rated but underappreciated culinary gems
- **Cleaned, prepared and analyzed** real-word data using the scikit-learn library, applying silhouette scores to evaluate model effectiveness and delivering detailed, data-driven insights

Scholar Sorter - *Python* — December 2023
- **Developed an automated web scraping tool** using Python and Beautiful Soup, targeting a major scholarship database to streamline and enhance students' scholarship discovery process
- **Engineered a keyword-based filtering algorithm** that efficiently parsed through over **1,000 scholarship entries**, enabling users to identify opportunities tailored to their unique backgrounds and academic needs

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