Yagizhan B. Durak

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SOFTWARE ENGINEERING STUDENT

I'm a junior Software Engineering student at Sam Houston State University, currently holding a 3.51 GPA and actively working as a research assistant in the College of Science and Engineering Technology, where my work primarily involves machine learning applications. With previous internship experience in cybersecurity, focusing specifically on web security at Hedgus Inc., I've developed solid technical expertise and teamwork skills. My passion for research extends beyond software; recently, I've become involved in interdisciplinary projects like evaluating roadside vegetation for carbon sequestration and analyzing road marking reflectivity using drone imagery. In our latest project, we aim to contribute to broader advancements in health-related fields through the integration of data-driven methods, making this scholarship a valuable support for our goals. I'm strongly motivated to build an academic career, aiming to pursue a Ph.D. directly after graduation, driven by a genuine curiosity to solve real-world problems through innovative research.

KEY COMPETENCIES

Process improvement	Data preprocessing	Research
Machine Learning	Teamwork	Communication

RESEARCH EXPERIENCE   March 2025 - Present

College of Science and Engineering - Sam Houston State University
Research Assistant
Supervisor : Dr. Syed Hasib Akhter Faqurui
- Building the data pipeline for eye-tracking and radiology image (X-Ray) pairs.
- Attending weekly meetings to share updates and get feedback on the progress.
- Developing multimodel MCMC algorithm (Future work)

College of Science and Engineering - Sam Houston State University   Sept 2024 - March 2025
Research Assistant
Supervisor : Dr. Momen Mousa
- Supported a machine learning-based research project through data analysis and model evaluation.
- Prepared and delivered presentations
- Engaged in collaborative research efforts, contributing to regular discussions and team meetings.

INTERNSHIP EXPERIENCE   August 2022 - August 2023

Hedgus Inc. NJ
Cyber security intern

Worked on enhancing web security, focusing on vulnerability assessments and developing secure solutions. Collaborated with a team to address security issues and improve overall system integrity. Gained experience in teamwork, problem-solving, and adapting to a fast-paced environment.

EDUCATION & CERTIFICATIONS

Junior in Software Engineering
Sam Houston State University
GPA : 3.51

Dean's List - Fall 2024
Sam Houston State University

WORKSHOP / TRAINING

Data Science for Energy Transition - 2025
University of Houston

Selected to participate in the NSF-funded "Data Science for Energy Transition" program hosted by the University of Houston.