

Mark Ulicnik

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SOFTWARE ENGINEER

SUMMARY

Enthusiastic software engineering graduate with a unique appreciation for thorough documentation and useful software. Most comfortable in fast-paced, heavy-learning environments with new and engaging technologies and design specifications. Loves reading tech blogs and classic novels, cycling, and the outdoors. Prefers the active approach to life and engineering.

TECHNICAL SKILLS

Languages: Python, C++, Javascript, Rust
Tools: React, Scikit-learn, Netlify, Pandas
Database: Postgres, MySQL, MongoDB
Recent Interest: HTMX, scikit-learn, pytorch

EDUCATION

B.S.: Computer Science | University of Houston-Downtown (UHD), Houston, TX MAY 2024

GPA: 3.8

Relevant Courses: Data Structures and Algorithms, Software Engineering, Natural Language Processing, Database Management Systems, Statistical & Machine Learning, Web Programming, Artificial Intelligence

A.S.: Computer Science | Lonestar College System, Cypress, TX DECEMBER 2022

PROJECT EXPERIENCE

College of Sciences & Technology Dept. — UHD, Houston, TX MAY 2023 – AUGUST 2023

Student Project | Parkinson's Disease Detection using ML Classification Models | Python

- Trained 3 machine learning models to classify patients using features based on audio data
- Models were able to classify patients with a 93% accuracy measure
- Evaluated model based on accuracy, recall, F-1 score, and MCC to determine ability

College of Sciences & Technology Dept. — UHD, Houston, TX JANUARY 2024 – CURRENT

Sole Researcher | Logical AI Agents for Supply Chain Resilience | Automated Multiagent Planning

- Researched formalization and modeling technique for logical agents to improve supply chain
- Implemented logic programs to create system capable of answering user queries about resilience
- Developed knowledge of knowledge representation and logical reasoning for logical AI agents
- Presented research at 2024 Capitol of Texas Undergraduate Research Conference at UT Austin and 2024 UHD SRC hosted by the Scholar's Academy

RELEVANT EXPERIENCE

PC Technician II | Lonestar College, Tomball OTS — Tomball, TX APRIL 2023 – CURRENT

- Supplied support for all Windows and Apple computers campuswide, phones, printers, and scanners
- Researched and delivered solutions to user requests amongst regular duties each day
- Followed talks from LSC System leadership, discussing developments in industry standards and updates in best practices for IT service

Research Assistant | CSET Dept. UHD, Houston, TX NOVEMBER 2023 – MAY 2024

- Studied how to acquire and process data to train machine learning models for classification
- Utilized anomaly detection and machine learning algorithms to classify RNA data for chromatin loop bindings
- Reported research findings in weekly meetings to communicate changes to performance metrics

Service Technician | WireStar Networks, College Station, TX FEBRUARY 2019 – FEBRUARY 2020

- Researched new network modems to assess usability and flexibility of more cost-efficient models
- Resolved ~20 network related issues both on-site and remotely
- Obtained functional knowledge of Red Hat's Ansible which lead to a simplified workflow and streamlined device management

ACTIVITIES

Member, UHD Association for Computing Machinery (ACMUHD)