

Cole Plagens

281-707-8817 · colep3@icloud.com · www.linkedin.com/in/cole-plagens · <https://github.com/Colep39>

EDUCATION

University of Houston, Houston TX

BS in Computer Science | *Minor in Math* | GPA: 3.6 | **Dean's List (August 2023 - Present)**

Relevant Coursework: Database Systems, Data Structures and Algorithms, Operating Systems, Data Science I, Statistics for the Sciences, Data Science and Statistical Learning, Fundamentals of Software Engineering

PROJECTS

Theme Park Management System · Group Project · University of Houston

January 2025 – April 2025

- Led a team that developed a full-stack six-flags styled theme park management system web application with CRUD operations.
- Designed and implemented a MySQL database schema with Azure and DataGrip as the database client, including user authentication & data tracking.
- Enforced semantic constraints in the system through the use of triggers in the application. The triggers would keep data consistent for rides being available based on their maintenance status and the rides having special displays on the application side when they have been frequently ridden.
- Utilized technologies including React, C#, and MySQL. Deployed the backend with Azure, the frontend with Vercel.

Stroke Classification Models · Machine Learning Project

January 2025 - April 2025

- Implemented supervised learning techniques such as Support Vector Machines and K-Nearest-Neighbors to classify whether the details of a given individual imply that they are susceptible to having a stroke.
- Utilized Data Exploration techniques to understand that data through various visualization methods.

Messaging App · Fullstack Project

July 2025 – Present

- Designed a user friendly, highly responsive frontend to support real time messaging between users, supporting direct messaging and group chats.
- Utilized an ORM to simplify database operations during development, JWT tokens for user authentication, and unit testing to ensure functional parts of the software work as expected.
- Implemented complete CRUD functionality with a tech stack that includes React, Tailwind CSS for the frontend deployed on Vercel and Node.js, Express, PostgreSQL as the backend and database.

EXPERIENCE

Crew Member

July 2022 – August 2023

Flrehouse Subs

- Provided excellent customer service in fast paced, team oriented environment
- Upheld franchise best practices and protocols for food handling safety and efficiency
- Held in high regard by guests, coworkers, and managers from performance

ACTIVITIES

CougarCS-UH: Active Member

January 2024 - Present

- Collaborate with fellow computer science students, mentoring others in data structures, operating systems and other course work.
- Actively search for competitions and activities to enhance skills and professional growth

TECHNICAL SKILLS

Languages: C++, Python, HTML, CSS, JavaScript, SQL, R

Frameworks and Libraries: React, Node.js, Express, Tailwind CSS

Tools and Platforms: Git, Github, VS Code, NPM, Prisma ORM, Microsoft Excel, Vite

Soft Skills: Punctuality, Time Management, Adaptability, Communication, Team Oriented