Cole Plagens

281-707-8817 | colep3@icloud.com | linkedin.com/in/cole-plagens | github.com/Colep39 | coleplagens.com

EDUCATION

University of Houston — Houston, TX
Bachelor of Science in Computer Science, Minor in Mathematics, GPA: 3.6 — *Aug. 2023 – Dec. 2025*

- 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
- Dean's List Fall 2023 - Fall 2025

Lonestar College — Houston, TX
Associate's in Science in Computer Science — *Aug. 2021 – May 2023*

PROJECTS

ChatterBox - Social Media App | *Typescript, React, Appwrite, React Query, Tailwind* — Dec. 2025 – Present

- Developed a full-featured social media web application using React, TypeScript, and Appwrite, featuring secure authentication, user profiles, post creation/editing, likes, and saved content
- Improved performance and user experience by integrating TanStack React Query for efficient data fetching, caching, and mutations, alongside a responsive, mobile-first UI built with Tailwind CSS and shadcn/ui

Volunteer Activity Application | *React, Next.js, Express, PostgreSQL, Supabase* — Sept. 2025 – Nov. 2025

- Built a full-stack volunteer management application using the PERN stack, enabling secure user authentication, role-based access for admins and volunteers, and full event lifecycle management
- Implemented an automated volunteer–event matching system based on user profiles, skills, and availability, with notifications and participation tracking to streamline coordination and improve engagement

Themepark Management System | *React, MySQL, ASP.NET, Azure* — Jan. 2025 – April 2025

- Developed a full-stack Theme Park Management System with role-based authentication (Visitor, Staff, Admin), supporting ticket purchasing, ride and shop browsing, and user profile management
- Designed and integrated a relational database with complex queries and semantic constraints enforced via triggers, ensuring data integrity for ride status, maintenance, and featured attractions
- Built admin and staff dashboards with full CRUD functionality and analytical reports, including revenue, ticket sales, maintenance costs, ride breakdowns, and popularity metrics over configurable time ranges
- The full application was hosted by services including Vercel and Azure

EXPERIENCE

CougarCS Tutor — Sept. 2025 – Present
University of Houston — *Houston, TX*

- Collaborated with students and other tutors in the department to provide valuable help to students needing assistance with their programming assignments and examination preparation
- Troubleshooted student programs through rigorous C/C++ programming assignments requiring challenging implementations of course content

Crew Member — July 2022 – Aug. 2023
Firehouse Subs — *Houston, TX*

- Provided excellent customer service in a fast-paced, team-oriented environment
- Upheld franchise best practices and protocols for food handling safety and efficiency

TECHNICAL SKILLS

Languages: Python, C/C++, SQL (PostgreSQL, MySQL), JavaScript, HTML/CSS, R
Frameworks: React, Node.js, Express, Tailwind, ASP.NET, Next.js
Developer Tools: Git, Docker, Supabase, VS Code, Visual Studio
Libraries: Pandas, NumPy, Matplotlib, Seaborn