

EXPERIENCE and PROJECTS

Sharewell HDD : Downhole Drilling Data Platform (Part of Capstone final year project)

AWS | VUE | SQL

- Developed full-stack application components using HTML, CSS, and JavaScript
- Deployed backend and frontend servers on AWS EC2
- Designed and managed relational databases using AWS RDS (SQL)
- Implemented structured data models using tables, joins, and primary keys
- Improved long-term data trend analysis to enhance operational insights and strategic planning
- Applied Object-Oriented Analysis & Design (OOAD) principles and common design patterns
- Utilized Jira for tracking tasks, managing sprint backlogs, reporting bugs, and collaborating with cross-functional team members
- Followed Agile software development lifecycle (SDLC) methodologies in a collaborative team environment

Houston Area Community Organization – CHW Data Platform Enhancement (Part of Vue class project)

Vue.js | Node.js | MongoDB | Full-Stack Development

- Developed frontend features using Vue.js
- Built backend services with Node.js
- Managed NoSQL database architecture using MongoDB
- Designed event management functionality to create and track service-based events
- Implemented client-service tracking tied to specific community events
- Improved data accessibility for CHWs to manage clients and resources efficiently
- Applied RESTful APIs and JSON for client-server communication

Pulse – Discord Administration Bot :Personal Project

Python | Disnake Library | VPS Deployment

- Built using Python and Disnake library
- Self-hosted on a VPS environment
- Role and permission management (kick/ban moderation tools)
- Custom embedded messages and role-reaction automation
- Detailed logging system for server transparency
- Git-based recent commit tracking feature for update visibility
- Implemented HTTP/API integrations where needed for Game data, updates etc

Personal Portfolio Website : parthlad.netlify.app/

React | MUI | Emotion | Framer Motion | Bootstrap

- Converted a static HTML/CSS/JS website into a modern React application
- Implemented reusable components and responsive design principles
- Applied modern UI/UX best practices
- Focused on performance-optimized web development

EDUCATION

University of Houston

Bachelor of Science in Computer Information Systems

Houston, TX

SKILLS

- Programming: Java (Core), JavaScript, Python
- Cloud & Data: AWS (EC2, RDS), Microsoft Azure (Foundational), SQL & Relational Data Modeling
- Development Concepts: REST APIs, HTTP/JSON, Object-Oriented Design, Design Patterns, Agile/Scrum
- Tools & Platforms: Jira, ServiceNow, Git, Microsoft 365; CMS exposure (WordPress, Shopify).