Ramya Sruthi Pedakolimi

+1 405.788.6561 | ramyasruthi.pedakolimi@gmail.com | linkedin.com/in/sruthi-pedakolimi/ | github.com/Sruthi-Pedakolimi

EDUCATION

Master of Science in Computer Science | *University of Oklahoma (GPA 4.0)*   **Aug 2023 - May 2025**

RELATED PROJECTS

Library Management System

Tech Stack: HTML, CSS, JavaScript (ES6+), Bootstrap, CCBP Book Store API

- Developed a modern, responsive web application for real-time book searching, integrating with the CCBP Book Store API.
- Implemented robust error handling for API calls and loading states with Bootstrap spinners, providing clear user feedback.
- Utilized JavaScript (ES6+ async/await) for efficient DOM manipulation and asynchronous data fetching, ensuring dynamic UI updates and a smooth user experience.
- Designed a clean, user-friendly interface using Bootstrap 4 and custom styling, focusing on accessibility and cross-device compatibility.

E-commerce Platform

Tech Stack: Django, Django REST Framework, PostgreSQL, JavaScript, HTML/CSS, Bootstrap

- Developed a full-stack e-commerce platform supporting product listing, cart operations, secure authentication, payment processing, and order management, demonstrating end-to-end system development.
- Engineered reusable Django backend modules with a clear separation of concerns (views, services, serializers, repository layers) to ensure maintainability and scalability for a complex application.
- Implemented RESTful endpoints and frontend integration using modern fetch() calls (AJAX behavior), enabling real-time cart updates and asynchronous order flows.
- Optimized data flow using serializers and service functions for cleaner controller logic, bulk database operations (e.g., bulk order item creation), and transactional consistency.

To-Do List Web App

Tech Stack: HTML, CSS, Bootstrap 4, JavaScript, LocalStorage

- Built a responsive task management tool with dynamic UI updates and offline data persistence using localStorage, fully developed with vanilla JavaScript.
- Designed a clean, user-friendly interface using Bootstrap and custom styling to ensure accessibility across devices.

RELATED WORK EXPERIENCE

Software Engineer Intern | **PINScale Tech Pvt. Ltd.**   **May 2024 - Aug 2024**
Project: Web Tool for Order Management:

- Developed a full-stack internal web tool using Python, HTML, CSS, and vanilla JavaScript to track and manage customer orders for the sales team.
- Wrote backend scripts in Python for form submissions and real-time updates, handling data parsing without external frameworks.
- Collaborated with a senior developer to test and debug the tool, documenting code for future updates.

Graduate Research Assistant | University of Oklahoma   **Sep 2023 - May 2025**

- Built advanced Excel VBA user forms and automated calculators to streamline data entry and simplify complex scientific computations.
- Refactored legacy code into modular procedures and user-defined functions to improve code maintainability and extensibility.

SKILLS

Programming & Web Development: Python, C++, JavaScript, HTML/CSS, React, Django, Django REST Framework, RESTful API
Cloud & DevOps: Cloud Platforms (AWS), Containerization (Docker), Version Control (Git)
Data & Business Intelligence: SQL, Power BI, Tableau, Looker Studio, Mixpanel, Advanced Excel, Excel VBA
Machine Learning & Analytics: Scikit-learn, Feature Engineering, Classification Models, A/B Testing, Regression Analysis, EDA, Statistical Modeling
Other: Google Tag Manager (GTM), Google Analytics (GA4), Google Optimize, Hotjar, Microsoft Clarity