Ramya Sruthi Pedakolimi

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EDUCATION

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

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 (MySQL, PostgreSQL), 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

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.

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**

- Engineered full-stack web applications using Django (Python) and front-end technologies (JavaScript, HTML, CSS) to replace manual data processing tools and streamline user workflows.
- Recreated and extended Excel-based logic into scalable web forms, enabling research staff to input data, trigger calculations, and generate outputs via a web interface.
- Refactored computational logic into modular Django views and Python functions, packaged for deployment by non-technical end users.