**Geetha Naga Durga Lahari Maddu**

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**Skills**

**Programming Languages:** Java, C, JavaScript

**Frameworks:** React, Next.js, Spring Boot, Node.js, Express, Bootstrap, Tailwind CSS

**Technologies:** HTML, CSS, Microservices, Hibernate, JDBC, REST API

**Databases:** MySQL, Oracle DB, SQL Server, MongoDB

**Tools:** Visual Studio Code, Eclipse, Git, Maven, Docker, Postman

**Cloud Technologies:** AWS, Firebase

**Education**

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| **Saint Leo University, Florida, USA** | **Jan 2025-present** |
| *Masters, Computer Science*  Relevant Courses: Analysis of Algorithm, Software Engineering, Advanced Computer Architecture | |
| **Shri Vishnu Engineering College For Women, India** | **2020-2024** |
| *Bachelor of Technology in Information Technology, GPA:9.05/10*  Relevant Courses: Data Structures and Algorithms, Operating Systems, Database Management System, Computer Networks | |

**Projects**

**Pathfinder AI,** *AI application with a web-based frontend interface.*

Technologies Used: Ollama (local AI models), Open WebUI, Docker, React.js, Prompt Templates

**Project Description:**

Built a privacy-focused AI Career Coach that runs locally using Ollama and Open WebUI. The application lets users upload resumes, receive personalized feedback, and practice mock interviews through a web interface, all without needing an internet connection. It ensures data privacy by running powerful AI models directly on the user’s computer.

**Key Features:**

* Enabled offline AI interaction by running language models locally with Ollama, ensuring complete data privacy.
* Developed a user-friendly web interface with Open WebUI for easy communication with the AI coach.
* Allowed users to upload resumes and career documents to get tailored feedback and actionable suggestions.
* Created customizable prompt templates for resume review, mock interviews, and career advice.
* Connected the frontend UI to the Ollama backend through Docker, maintaining seamless message flow.
* Supported uploading knowledge files such as job descriptions and visa guidelines to customize AI responses.
* Provided real-time feedback on resumes and interview practice, improving user preparedness.
* Designed the system to be extensible, enabling prompt refinement and knowledge base expansion.
* Ensured the entire application runs offline without any cloud dependency, safeguarding sensitive information.
* Offered clear setup instructions for installation on Windows, Mac, and Linux platforms.

**Netflix clone,** *Front end*

**Project Description:**

Created a responsive Netflix clone using React.js and Redux, focused on delivering a seamless user interface for browsing and streaming-style content. The application includes a simulated login system and subscription payment feature using Stripe, enabling access control to premium content.

**Key Features:**

* Built a visually engaging Netflix-like UI using React.js with reusable components for the homepage, feature banners, movie cards, and category rows.
* Implemented dynamic routing with React Router for seamless navigation between Home, Browse, Login, and Subscription pages.
* Integrated Redux for global state management to manage user authentication status, subscription state, and UI control across components.
* Enabled user login and authentication simulation using dummy credentials stored in the Redux store (no database).
* Developed a subscription payment feature using Stripe to simulate real-time payment flow for different subscription tiers.
* Built a responsive design to adapt across mobile, tablet, and desktop screen sizes using CSS Flexbox/Grid and media queries.
* Used mock data (TMDB API) to display categories like Trending, Top Rated, and Originals dynamically.
* Designed a conditional rendering flow based on subscription status locked content becomes visible only after successful payment.
* Added visual feedback for payment success/failure and simulated access control without storing payment data.
* Maintained code modularity with proper separation of concerns, clean component structure, and reusable styles.

**Ecommerce Web Application,** *Full Stack*

Technologies Used: React.js, Spring Boot, REST API, MySQL, JWT, Spring Security, Tailwind CSS

**Project Description:**

Designed and developed a full-stack e-commerce application combining a dynamic React.js frontend with a robust Spring Boot backend. The application allows users to browse and purchase products while providing administrators with control over product and order management. The frontend and backend communicate through secure RESTful APIs, offering a scalable, modular architecture.

**Key Features:**

* Built a responsive user interface using React.js with component-based architecture and React Router for navigation.
* Implemented global state management using Redux to handle user sessions, cart items, and product data across components.
* Developed RESTful APIs with Spring Boot following a layered architecture (Controller → Service → Repository) for modularity and scalability.
* Used Spring Security and JWT for secure authentication and role-based authorization (User/Admin).
* Designed a product catalog with admin capabilities to add, update, and delete products; users can browse, search, and filter items.
* Integrated shopping cart and checkout features allowing users to add/remove products, adjust quantities, and place orders.
* Enabled order history and tracking for users and order management for admins.
* Used MySQL as the relational database and Hibernate ORM for seamless object-relational mapping and data persistence.
* Ensured cross-device responsiveness using Bootstrap/Tailwind CSS for a mobile-friendly design.
* Followed best practices in backend validation, exception handling, and API security.

**Health Insurance Cost Prediction,** *Machine Learning*

Project Description:

Built a machine learning model to predict health insurance costs based on factors like age, BMI, smoking status, and region. The project involved cleaning and analyzing the data, training multiple regression models, and selecting the best one based on performance. The model helps estimate individual insurance charges and can support decision-making for both users and insurers.

Key Features:

* Used a publicly available dataset containing age, BMI, sex, smoking status, number of children, and region to predict insurance costs.
* Performed data cleaning, handled missing values, and encoded categorical variables for model readiness.
* Conducted exploratory data analysis (EDA) to understand data distribution and feature correlations.
* Applied feature scaling and created new features to capture relationships between variables.
* Trained and evaluated multiple regression models including Linear Regression, Random Forest, and Gradient Boosting.
* Used performance metrics like MAE, MSE, and R² score to compare model accuracy.
* Optimized model performance using hyperparameter tuning with GridSearchCV.
* Visualized insights using Seaborn and Matplotlib to interpret trends and model predictions.
* Built an optional user interface with Streamlit to input personal data and view cost predictions.
* Explained model output with feature importance charts to ensure transparency.