Jeevana Thatagari

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Education

Master of Science, Computer Science.(GPA:3.76)
University of California, Riverside – Riverside, CA.
Bachelor of Engineering, Computer Science.(GPA: 3.55)
Anna University – Chennai, India.

Skills

Languages : Python, Javascript, C, Java, HTML, CSS, ColdFusion.
Frameworks : ReactJs, Django, REST API, Bootstrap, Tailwind, Webpack, .NET, NPM, D3.js, VB.NET, Spring Boot
Version Control / OS and Tools : Git, Github, Linux, Hadoop, Docker, Jenkins, Ansible, Maven, Gradle, Figma, WordPress
Databases & Cloud : AWS, Azure, Cassandra, MongoDB, ElasticSearch,MySQL, PostgreSQL
Related coursework : Algorithms, Object Oriented Programming with Java, Design Patterns, Artificial Intelligence, Web Technologies, Theory of Computation, UML, Database Management System, Computer Networks & Operating Systems, Data Structures & Algorithms, Software Development methodologies

Work Experience

Software Developer, SmartKnower - Remote
- Collaborated on a comprehensive healthcare analytics platform, focusing on developing a user-friendly front-end interface using **HTML5, CSS3, JavaScript, JQuery, AngularJS, and Bootstrap,** providing clinicians and researchers with dynamic and responsive data visualization tools.
- Engineered the back-end architecture, utilizing Struts for the presentation layer, **Spring IOC** for business logic, and **Hibernate ORM** for data services, ensuring efficient handling of large healthcare datasets and application modularity.Implemented **RESTful** web services, **AJAX, JSON**, and **XML** for seamless data exchange between the server and the client, enabling robust integration and manipulation of healthcare data.
- Managed data storage and retrieval using **SQL** (Oracle, MySQL) and **NoSQL** (MongoDB) databases, and utilized AWS services like S3, EC2, and RDS for scalable cloud computing solutions.
- Applied machine learning algorithms, such as **logistic regression**, **decision trees**, and **neural networks**, to analyze healthcare data, identifying patterns and insights that support clinical decision-making and research.
- Preprocessed large healthcare datasets, applying data cleaning, transformation, and feature extraction techniques to prepare data for model training and analysis.
- Utilized **Natural language processing** (NLP) techniques to extract insights from unstructured clinical notes and text data, enhancing data analysis capabilities.
- Adopted a Test-Driven Development approach, utilizing **Jasmine** and **Karma** for testing, which resulted in a significant decrease in bug rates and an acceleration of the development cycle.
- Streamlined the development and deployment process using CI/CD tools like **Jenkins** , and collaborated effectively using **Agile Scrum** methodology to ensure timely and iterative delivery of the healthcare analytics platform.

Teaching Assistant, Computer Science Department, University of California - Riverside
- Collaborated with the professor in teaching the **'Data Structures and Algorithms'** and '**Web development'** course, facilitating lively classroom discussions and helping to create and distribute educational materials.
- Mentored and guided 10 teams of students on assignments and homeworks involving complex data structures and algorithms.

Projects

Transit Tracker
- Led the development of a full-stack web application, Transit Track, utilizing **React** for the frontend and **Java** with **Spring Boot** for the backend. Implemented user authentication, ticket booking, and reservation management features, enhancing the user experience and operational efficiency.
- Integrated **RESTful API**s for user authentication, ticket booking, and reservation management. Documented the backend **API** using **Swagger**, ensuring clarity and ease of use for other developers and stakeholders.
- Utilized a range of technologies and tools including **React Router, Axios, Spring Security, JWT, MySQL, Swagger,** and **Maven**. Employed best practices in software development, such as code structuring, version control (**Git**), and **agile methodologies**, to deliver a robust and scalable solution.

WellBeingWeb
- Developed a semantic web search engine and geospatial analysis tool to filter twitter data which are related to lifestyle and well being.It includes the location of the tweet and also author name with twitter id of around 2.3 million tweets.
- Worked on **PyElasticSearch** , **BERT** and Tweepy for efficient crawling, indexing and retrieval of tweets.An interactive user interface using **HTML**,**CSS**,**JavaScript** allowing users to enter queries and preview relevant tweets from **Lucene** and **Fiass**.

Calorie Tracker
- Created a Calorie tracker with HTML, CSS, **Python,React, Django**, and PostgreSQL, enabling user-friendly calorie tracking and integrated wordpress for food database management.Added features like barcode scanning, calorie goal setting, and water intake tracking, enhancing app functionality and user engagement.
- Focused on enhancing user experience and data accuracy with **PostgreSQL** for reliable database management, planning future updates like API integration for preselected foods, weekly calorie intake visualization, and weight management goals.