Aswin S

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Summary

Software Developer skilled in Java, Spring Boot, and React, passionate about building robust, user-centric solutions.

Technical Skills

Programming Languages: Java (Core, OOP, Collection Framework), JavaScript, Python
Front-End: HTML5, React.js, CSS3, Tailwind CSS, Responsive Design
Back-End: Spring Boot, REST APIs, Postman
Version Control: Git, GitHub
Database: MySQL
Data Analysis & Visualization: Power BI, Excel

Experience

Wingroo Technologies June 2025 – September 2025
Web Development Intern *Coimbatore, Tamil Nadu*

- Contributed to the development of "Virtue Hire," a full-stack recruitment platform, utilizing Spring Boot for backend services and React.js for the frontend.
- Developed and integrated RESTful APIs to handle core functionalities such as candidate profile management, job posting, and application tracking.
- Collaborated in an Agile team to troubleshoot, debug, and enhance application features, improving system performance and reliability.

Projects

WinTech Course Registration & Student Management System | *Java, Spring Boot, React*

- Developed full-stack application using Spring Boot backend and React.js frontend, deployed on Render and Vercel respectively.
- Engineered RESTful APIs for course management, student registration, and enrollment tracking.
- Built responsive UI with dynamic forms, React Router navigation, and real-time data synchronization.
- Designed MySQL database schema using Spring Data JPA for optimized data management.

Appu's Aquarium – Website Design | *React, Tailwind CSS,Custom Hooks*

- Designed and developed a responsive brand website using React, JavaScript (ES6+), and CSS3/Tailwind CSS.
- Implemented a mobile-first design with reusable components, client-side routing, and smooth animations for an optimal cross-device user experience.
- Engineered extensive business logic with custom React hooks to calculate real-time species compatibility and biological capacity.

Viral Genome Classifier | *Python, Deep Learning* Academic Project

- Developed hybrid LSTM-Transformer model (RRCNN) achieving 89% accuracy in classifying viral genomes (MERS, SARS, COVID-19, Ebola, Dengue) by capturing both sequential and global genetic patterns.
- Addressed class imbalance using SMOTEN oversampling to enhance model fairness and robustness in multiclass viral sequence classification.

Education

Panimalar Institute of Technology Chennai, Tamil Nadu
B.Tech in Artificial Intelligence and Data Science *Cumulative GPA: 8.4/10*
Thesis: Decentralizing AI Computing: A Study with IPFS and Public Peer-to-Peer

Relevant Coursework: Data Structures, Web Development, DBMS

Christ The King Matric Higher Secondary School, HSE Kumbakonam
Percentage: 89.2

Certifications

Java Cloud Architect
Python for Engineers