ADITYA KUMAR JHA

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Education

Bharati Vidyapeeth College Of Engineering, Pune   **2019 - 2023**
B.Tech in Electronics and Telecommunication Engineering   *9.08/10 CGPA*

Work Experience

Visteon Corporation   **Aug 2023 – Aug 2024**
Software Engineer   *Hybrid*

- Contributed to the development of **cutting-edge** automotive software solutions, focusing on instrument clusters and infotainment systems for **AUDI** projects, aligned with enterprise-grade design.Developed and maintained scalable, object-oriented C code. Worked in Unix/Linux environments adhering to continuous improvement practices.
- Led end-to-end full cycle development of the model dimming feature for Project **Audi**, enhancing user experience ,safety and system scalability . **Collaborated with cross-functional teams** to integration of dimming functionality seamlessly into the existing software framework .Implemented efficient dimming **algorithms** to adjust brightness dynamically based on ambient conditions.Worked closely with stakeholders to meet delivery standards.
- Followed best practices of the Software Development Lifecycle using tools **VectorCAST** for automated **software testing and Coverity** for **static code analysis**, ensuring the development of high-quality and secure software solutions through comprehensive testing and code quality assessments.Applied **shell scripting** and built tools for efficient debugging, system migration, and internal utilities.
- Addressed and resolved **foundational Issues and Defects(Dimming model)** promptly following the implementation of newly flashed codes in **hardware** Built, tested, and deployed embedded solutions using Ubuntu **Linux**, integrating with automation tools and CI/CD pipelines.Participated in peer code reviews, Agile Scrum stand-ups,and serverless models as part of project **Innovation**.

Technical Skills

Languages: C++,JavaScript,Python,SQL
Web Techonolgies:REST API, HTML5, CSS3, React.js, Node.js, Express.js, Tailwind CSS
Cloud & DevOps: Git, CI/CD
Databases:MongoDb,PostgreSQL
Developer Tools: VS Code,Coverity,VectorCast,Raphsody,Postman

Projects

Chess.com Clone   **Source Code**

- Designed and implemented a **real-time multiplayer chess game** using **Node.js**, **Express.js**, **Socket.io**, and **EJS** for server-side rendering.
- Built **dynamic** player roles (white, black, spectator) with synchronized game state management using **chess.js** for move validation with a focus on robust coding and gameplay logic.
- Developed an intuitive **drag-and-drop interface** for seamless chessboard interactions and gameplay.Included features like game roles, intuitive UI/UX, and JSON-based game state syncing.
- Ensured **real-time updates** for all connected clients, with high scalability and intuitive UI for seamless web development experience.

Chat App with AI   **Source Code**

- **Developed and Implement Full Stack an Intelligent real-time chat application** using the **MERN stack** integrated with **Google Gemini AI** for intelligent and innovative responses.
- **Implemented WebSockets (Socket.io)** for **seamless real-time messaging** and **Redis caching** for performance optimization and scalability .
- **Designed a scalable backend** included **RestAPI** and JWT-secured login system with JSON-based communication for real-time interaction. and API rate limiting following software development best practices.
- **Built a responsive and interactive UI** using **React.js and Tailwind CSS** for an enhanced user experience.Managed deployment through lightweight container for version-controlled testing of the product features.

Employee Management System   **Source Code**

- Developed a **React.js-based Employee Management System** with **role-based authentication** for Admin and Employees using Local Storage.Storing employee and admin data in **NoSQL(MongoDB)**.
- Designed **dynamic dashboards** where Admins can **assign, track, and manage tasks**, while Employees can **view, update, and complete tasks**.
- Implemented **task tracking** with statuses (**New, Active, Completed, Failed**) using **React Hooks** (`useState|`, `useEffect|`, `useContext|`).
- Built a **responsive UI with Tailwind CSS**, applied full-stack development principles and best web development practices for performance optimization. Integrated JSON parsers and automated test scripts to validate dashboard logic

Certifications And Learning

Microsoft AWS Fundamentals (in progress)
Solved 250+ DSA Problems demonstrating strong problem-solving and coding skills.
Led a team of three for final year major project showcasing leadership and ability to collaborate .