Krithish R

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Projects

Full Stack Task Management System (MERN)

- Developed a full-stack task management application using **React, Node.js, Express.js, and MongoDB**, supporting **20+ API endpoints**.
- Configured secure authentication and authorization with **JWT** (access & refresh tokens).
- Enabled real-time task updates using **Socket.IO (WebSockets)**, reducing manual page refreshes **~60%**.
- Designed and consumed **15+ RESTful APIs** with validation and structured error handling.

Authentication & User Management System

- Built a secure authentication system using **Node.js, Express.js, MongoDB, JWT,** handling **multiple user roles**.
- Implemented password hashing with **bcrypt** to protect user credentials.
- Created role-based protected routes using **Express** middleware, securing 100% of private endpoints.
- Managed persistent user sessions using **JWT token** refresh mechanisms.

Automated Deployment of a Containerized Web Application

- Built a backend container using **Docker** and executed cloud deployments through **Kubernetes**, covering 3 environments.
- Applied **Deployments**, **Services**, and **Ingress** to distribute traffic for more than 100 backend requests every hour.
- Introduced release steps in **GitHub Actions**, removing nearly 90% of manual deployment procedures.
- Utilized rolling strategies on **Kubernetes** to keep services online during version updates and maintain steady uptime.

Work Experience

Data Operations Assistant   Jan 2025 – Jun 2025

HDFC Bank   *Bangalore, India*

- Optimized reporting using **Excel** Macros, cutting repetitive tasks by around 50%.
- Applied validation and **ETL checks** that boosted **data accuracy** across business reports.
- Coordinated reporting updates with teams, helping maintain compliance month-over-month.

Software Intern   Aug 2024 – Sep 2024

Zeta Coding Innovative Solutions   *Bangalore, India*

- Improved backend execution using **Python** and optimized **MySQL** queries for faster processing.
- Automated **ETL workflows**, reducing manual handling by nearly 40%.
- Worked with **Git/GitHub** and Agile practices, increasing deployment pace across releases.

Education

East West College of Engineering, Bengaluru

Bachelor of Engineering – Computer Science and Engineering   Jun 2020 – May 2024

Technical Skills

Languages: Java, JavaScript, C, HTML, CSS, Tailwind, MongoDB, SQL
Technologies/Frameworks: React.js, Redux, Node.js, Express.js, Spring Boot, Framer, sockets
Developer Tools: Git, GitHub, VS code, Eclipse, Intellij, Postman, Netlify, Docker, Kubernetes, Linux, Azure.
Core Competencies: Data Structures and Algorithms, Object Oriented Programming, REST API Integration,

Certifications

- Full Stack Web Development (TAP Academy)
- java Programming, NodeJS, MySQL
- AWS Cloud Technical Essentials