PRATHYU PRASAD

Full Stack Developer | 2 Years of Experience

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Summary

A full-stack web developer with **2 years of experience** in building scalable healthcare solutions from the ground up. Expertise in backend development using Node.js, microservices architecture, and AWS. Skilled in React.js, TypeScript, and delivering efficient, robust applications in fast-paced environments.

Skills

Back-end : Typescript, Node.js Microservices, Amazon Web Services (EC2, ECR, S3), Docker, Nginx, RabbitMQ
Front-end : Angular, React,TypeScript,Redux,Thunk
Databases : PostgreSQL, MongoDB, Redis
Tools / Platforms : Git/GitHub
Others : RESTful API,Responsive Design ,Problem Solving,Communication, Teamwork

Professional Experience

Neos HealthTech

Backend developer

Remote
Aug 2022 - Nov 2024

- Improved radiologists' efficiency through the development of **Flow**, a cloud-based application designed to provide radiologists with essential tools and AI assistance, streamlining workflows and improving diagnostic accuracy.
- Played a key role in building the project from scratch, collaborating with a team of four to design scalable architecture and implement core features
- Gained expertise in radiology workflows and **medical imaging standards** (DICOM, DICOMweb).
- Designed and implemented 1 microservices using **Node.js, TypeScript, and MongoDB,** ensuring scalability and performance. Worked on othor 4 microservices utilizing **PostgreSQL**, optimizing database operations for specific use cases.
- Maintained effective code structure, reducing complexity by 20% through **OOP** component refactoring.
- Here's an updated version with the refresh and access token logic mentioned concisely:
- Developed and maintained secure **RESTful** APIs using access and refresh token-based authentication for seamless communication between microservices and frontend applications."
- Implemented **WebSocket protocol** to enable real-time tracking of user status, improving system responsiveness and enhancing user experience.
- Enhanced inter-service communication efficiency by 30% through **RabbitMQ** migration from REST to asynchronous messaging.
- Developed an AI-powered bot to automate medical report generation, streamlining the diagnostic process.
- Utilized **Docker** to containerize applications, streamlining development and deployment processes.Reduced **AWS ECR** costs by 50% by optimizing Docker images
- **Led the design** and implementation of a task management feature that allows assigners to allocate patient studies to radiologists, streamlining workflows and enhancing productivity.
- Customized the **OHIF DICOM** Viewer (React-based open-source project) to meet specific product requirements.
- Gained hands-on experience with on-premise deployment of cloud architecture, acquiring in-depth knowledge of networking and the critical role of **Nginx as a reverse proxy**.
- Collaborated with diverse teams to develop and deploy efficient solutions.

Projects

Mini Social Media App

A full-stack MERN social media application with essential features for user engagement.

- Features:
  - View posts created by other users.
  - User authentication with email and Google.
  - Edit or delete personal posts.
  - Like and dislike posts.
- Role & Responsibilities:
  - Built REST APIs to connect the backend (Node.js, Express) with the frontend (React).
  - Implemented state management using Redux for seamless user interactions.
  - Designed a responsive UI using Material-UI, ensuring compatibility across devices.
  - Learned and applied Material-UI and Redux to enhance project functionality.
  - Completed the project independently within 10 days.
- Tech Stack: Node.js, Express, MongoDB, React, Redux, Material-UI

Education

Govt. College Kasaragod,Kannur University

BSc. Computer Science

Kerala
Jul 2018 - Apr 2021

Higher Secondary Education,Durga Higher Secondary School

Computer Science

Kerala
June 2016 - July 2018