Prem Kumar

SOFTWARE ENGINEER · FULL STACK DEVELOPER

Chennai, Tamil Nadu

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Skills

Programming	JavaScript, Typescript, Rust, Dart, SQL.
Technologies & Tools	AWS, EC2, S3, Lambda, React.js, Next.js, Express.js, Node.js, Flutter, PostgreSQL, Redis, MongoDB, Git, Docker.

Work Experience

tutrpro.   *Chennai, Tamil Nadu, India*

Software Engineer - Freelance   *Nov 2021 - Mar 2023*

- Led the creation of cross-platform Android and web application using Flutter, resulting in a reduction in development time and a decrease in maintenance costs due to a unified code-base.
- Accelerated back-end responsiveness by 40% through the implementation of a Custom GraphQL-based Nest.js back-end solution for efficient data queries.
- Implemented automated deployment of the back-end solution through Docker containerization and seamless deployment to Digital Ocean using GitHub Actions.
- **Technical Skills:** JavaScript, Typescript, Dart, Flutter, Next.js, React.js, Nest.js, PostgreSQL, GraphQL, Docker, Git, Github.

Education

Bharath University   *Chennai, Tamil nadu*

B.Tech in Computer science   *2019 - 2023*

CGPA : 8.4/ 10

Projects

CloudVault   *Dec 2023*

A cloud storage web application for online backup though S3.

- Implemented an async file upload queue feature that supports uploading a maximum of 5 files at a time, with real-time progress tracking.
- Implemented an AWS Lambda function that automatically triggers upon file upload to an S3 bucket, seamlessly notifying the backend through a webhook about the uploaded file.
- **Technical Skills:** Next.js, React, AWS, Lambda, S3, PostgreSQL, Docker.

QuickNotes   *Jan 2024*

A minimalist notes app with rich text editor support.

- Implemented throttling for login, forget password, and resend email verification functions to mitigate brute force attacks.
- Integrated rich text editor support for enhanced note customization.
- **Technical Skills:** Next.js, React, PostgreSQL, Docker.

Discuss   *Mar 2024*

A discussion forum website for hobbyists to connect, share, and discuss interests in a online community.

- Incorporated optimistic updates for seamless post upvoting and downvoting experiences.
- Implemented streaming support by asynchronously loading comments for each post, reducing page load time and enhancing user experience.
- **Technical Skills:** Next.js, React, PostgreSQL, Docker.