

# Prem Kumar

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## Summary

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Full Stack Developer with experience in architecting and implementing scalable and reactive web applications. Proficient in JavaScript, Typescript, Dart, React, Flutter, Next.js, Nest.js, Express.js, Node.js, PostgreSQL, Redis and AWS Services such as EC2, Lambda, S3. My focus is on delivering exceptional user experiences and optimizing performance through innovative solutions.

## Technologies

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**Languages:** JavaScript, Typescript, Dart, SQL

**Databases:** PostgreSQL, MySQL, MongoDB, Redis

**Technologies:** React.js, Next.js, Node.js, Tailwind CSS, Flutter, Docker, Git

**Cloud Infrastructure:** Lambda, S3, EC2, Elastic beanstalk, Digital Ocean Droplet, Vercel

## Experience

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**Tutpro**, Software Engineer, Freelancer (Chennai, Tamil Nadu)

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.
- Built intuitive admin panels using Next.js framework, for administrators to efficiently manage users and add content to the e-learning platform.
- Implemented automated deployment of the back-end solution through Docker containerization and seamless deployment to Digital Ocean using GitHub Actions.

## Projects

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**Cloud Vault** - [GitHub](#)

Dec 2023

A cloud storage web application for online backup through 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.
- Used Next.js, React, AWS, Lambda, S3, PostgreSQL, Docker.

### Quick Notes - [GitHub](#)

Jan 2024

A minimalist notes app with rich text editor support.

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

### Discuss - [GitHub](#)

Mar 2024

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

- Incorporated optimistic updates for user interaction such as upvoting, downvoting and posting to improve user experience.
- Implemented streaming support by asynchronously loading comments for each post, reducing page load time and enhancing user experience.
- Used Next.js, React, Tiptap Editor, PostgreSQL, Docker.

## Education

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**Bharath Institute Of Science & Technology** - B.Tech in Computer science,

2023

- CGPA: 8.4/10.0

**Velammal Matriculation School Mogappair (Main)** - (12th) H.S.C,

2018

- Percentage: 69.83%

**Velammal Matriculation School Mogappair (Main)** - (10th) S.S.C,

2016

- Percentage: 85.4%