

# Sarath Vp

MERN Stack Developer

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## PROFILE SUMMARY

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Enthusiastic full-stack web designer and developer with a strong foundation in modern web technologies. Over the past year, I've built multiple personal and academic projects that showcase my skills in both frontend and backend development. I'm passionate about creating visually appealing, responsive, and user-friendly web applications. I'm eager to learn, grow, and contribute to real-world projects while continuously improving my technical expertise.

## TECHNICAL SKILLS

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- **Languages & Databases:** JavaScript, TypeScript, C, MongoDB, MySQL, HTML, CSS/SCSS
- **Backend & Architecture:** Node.js, Express.js, REST APIs, MVC, OAuth, Jwt, Repository Pattern, SOLID Principles, Dependency Injection (Inversify), Clean Architecture
- **Devops & Deployment:** Git, GitHub Actions, AWS(EC2 & S3), CI/CD pipelines, Nginx, PM2, Redis
- **Monitoring & Logging:** Morgan, Winston
- **Tools & Design:** Git, GitHub Actions, ES Lint, Prettier, Postman, VS Code, Figma

## PROJECTS

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**LearnCircle:** Learning & Mentorship Platform | *Node.js, Express, MongoDB, Redis, Docker, RazorPay, AWS, Grafana, Winston, Repository Design Pattern, Solid Principle, Redux, TypeScript* [/GitHub](#)

- *Architected a full-stack learning platform that provides free and paid courses created by real developers and professional communities.*
- *Designed a multi-tenant structure supporting learners, professionals, and institutions allowing course creation, progress tracking, and analytics in one system.*
- *Designed REST APIs with repository pattern and SOLID principles for maintainable and testable code.*
- *Integrated Redis caching for OTP and session management, reducing response times by ~30%.*
- *Streamlined the software development lifecycle by implementing Docker, enabling developers to rapidly prototype and test code changes in isolated containers which reduced new feature release time by 25%*
- *Configured AWS S3 integration for 2,000+ images and documents, ensuring smooth media rendering across the application.*
- *Integrated Grafana + Prometheus for monitoring, logging and performance insights, tracking 20+ system metrics in real time.*
- *Implemented subscription-based course purchases with RazorPay integration for recurring payments, renewals, and upgrade management.*

**ZooCart:** E-commerce Application | *Node.js, Express, MongoDB, MVC, EJS, AWS EC2* [/GitHub](#)

- Developed backend architecture for full-stack e-commerce platform with role-based authentication and modular **MVC design**.
- Implemented **MongoDB aggregations** and **ExcelJS**-based export for 10,000+ transactions, improving data processing by 60%.
- Centralized error handling middleware and integrated **Morgan** for request logging, achieving enhanced debugging capabilities which streamlined troubleshooting efforts by **50%**, thus accelerating resolution times on critical issues across the application.
- Deployed backend on **AWS EC2** with **Nginx** and **PM2**, ensuring high availability and persistent MongoDB setup.
- Managed media storage and delivery for 2,000+ product images using **Cloudinary**, reducing load times by 30%.
- Enhanced UX by reducing page reloads by **40%** using the fetch API across modules like Cart and Wishlist

## EDUCATION

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Mern Stack

October 2024 – Present

BrotoType

Present

Bachelor of Computer Application

Shree Devi College Mangalore

October 2021 -July 2024

Mangalore, Karnataka