

# SHIKHIL K S

Full Stack MERN Developer

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🌐 [shikhil-ks-portfolio.vercel.app](https://shikhil-ks-portfolio.vercel.app)

## Professional Summary

Skilled Full Stack MERN Developer with 1+ years of hands-on experience in building scalable web applications using MongoDB, Express.js, React.js, and Node.js. Proficient in JavaScript, TypeScript, RESTful APIs, and modern web development practices. Experienced in microservices architecture, cloud deployment (AWS, GCP), and agile development methodologies. Strong problem-solving abilities with expertise in data structures, algorithms, and software engineering best practices.

## Technical Skills

**Frontend Development:** React.js, JavaScript ES6+, TypeScript, HTML5, CSS3, Bootstrap, Tailwind CSS

**Backend Development:** Node.js, Nest.js, Express.js, RESTful APIs, JSON Web Tokens (JWT)

**Database Management:** MongoDB, MySQL

**Programming Languages:** JavaScript, TypeScript

**Version Control & Collaboration:** Git, GitHub

**Cloud & DevOps:** Amazon Web Services (AWS), Google Cloud Platform (GCP), EC2, Route 53, Nginx, Docker

**Testing & API Development:** Postman, API Testing

**Software Architecture:** Microservices Architecture, MVC Pattern, Clean Architecture, Repository Pattern, SOLID Principles

**Real-time Technologies:** WebRTC, Socket.io

**Payment Integration:** Razorpay

**Additional Technologies:** Firebase, Redux, Context API, npm

**Computer Science Fundamentals:** Data Structures and Algorithms, Object-Oriented Programming

## Experience

### Brototype - MERN Stack Full Stack Development

Aug. 2024 – Present

Full Stack Developer Trainee

Kochi, Kerala

- Hands-on experience in MongoDB, Express.js, React.js, Node.js, and modern web development practices.
- Worked on real-world projects with industry best practices.

## Professional Projects

### DevConnect - Freelancer Collaboration Platform | MERN Stack, Microservices, WebRTC, GCP

April 2025

- Developed a comprehensive freelance collaboration platform using MERN stack with microservices architecture, serving 100+ users with real-time collaboration features.
- Implemented Clean Architecture and Repository Pattern across Node.js backend services, improving code maintainability and testability by 40%.
- Built real-time messaging system and video/audio calling functionality using WebRTC and Socket.io, enabling seamless freelancer-client communication.
- Deployed scalable application on Google Cloud Platform with Nginx reverse proxy, achieving 99.9% uptime and optimized load balancing.
- Integrated Razorpay payment gateway with automated invoice generation, processing payments monthly transactions.
- Designed responsive React.js frontend with modern UI/UX principles, ensuring cross-browser compatibility and mobile responsiveness.
- Utilized MongoDB for efficient data storage and implemented RESTful APIs for seamless frontend-backend communication.

[Live Demo](#)   [Frontend Repository](#)   [Backend Repository](#)

### IDEal - E-commerce Platform | Node.js, Express.js, EJS, AWS

January 2025

- Built full-featured e-commerce platform for second-hand iPhone marketplace using Node.js, Express.js, and EJS templating (server-side rendering).
- Implemented secure user authentication and session management bcrypt encryption for registered users.

- Integrated Razorpay payment gateway with retry mechanism, improving payment success rate by 30% and reducing cart abandonment.
- Deployed production-ready application on AWS EC2 with Nginx web server and custom domain configuration via GoDaddy.
- Developed admin dashboard with Chart.js for sales analytics, inventory management, and revenue reporting.
- Implemented PDF invoice generation and location-based delivery charge calculation using third-party APIs.
- Optimized MongoDB queries and implemented caching strategies, reducing page load times by 25%.

[Live Demo](#)   [GitHub Repository](#)

## Additional Projects

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**Custom URL Shortener** | *React.js, Tailwind CSS, NestJS, MongoDB, JWT, Axios*

**February 2025**

- \* Built a full-stack URL Shortener that converts long URLs into short, shareable links.
- \* Implemented user authentication using JWT with access & refresh tokens.
- \* Added click tracking analytics to monitor link performance.
- \* Used Axios interceptors for automatic token refresh handling.
- \* Implemented protected routes with role-based access control.
- \* Configured proper CORS handling for secure cross-origin requests.
- \* Deployed frontend on Vercel and backend on Render.

[Live Demo](#)   [Frontend Repository](#)   [Backend Repository](#)

**Aadhaar OCR Web App** | *React.js, Vite, Node.js, Express.js, Tesseract.js, Docker*

**January 2025**

- \* Developed a full-stack application to extract Aadhaar card details using OCR.
- \* Supported English, Hindi, and Malayalam text recognition via Tesseract.js.
- \* Enabled uploading of front & back Aadhaar images with instant extraction of Name, DOB, Gender, Aadhaar Number, Address, and Mobile Number.
- \* Containerized backend using Docker for easier deployment.
- \* Handled form-data uploads and cross-origin communication.
- \* Deployed backend and frontend on Render.

[Live Demo](#)   [Frontend Repository](#)   [Backend Repository](#)

## Education & Training

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**APJ Abdul Kalam Technological University**

**Aug. 2020 – May 2024**

*Bachelor of Technology in Electronics and Communication Engineering*

*Thrissur, Kerala*

- \* Relevant coursework: Data Structures and Algorithms, Object-Oriented Programming, Database Management Systems.

**Government Model Boys Higher Secondary School**

**June 2018 – May 2020**

*Higher Secondary - Computer Science and Information Technology*

*Thrissur, Kerala*

## Key Achievements & Certifications

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- Successfully deployed and maintained production applications with 99.9% uptime on cloud platforms.
- Improved application performance by 30% through code optimization and database query improvements.
- Contributed to open-source projects and maintained clean, well-documented codebases on GitHub.
- Experienced in agile development methodologies and collaborative team environments.

## Languages

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- English - Professional Proficiency
- Malayalam - Native Speaker