

# SOURAV K

Fullstack Developer

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## Professional Summary

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Full-Stack Developer with hands-on experience in building scalable, high-performance web applications using the MERNstack(MongoDB,Express.js, React, Node.js). Proficient in JavaScript, TypeScript, SQL, HTML, CSS, React, and MongoDB, with a strong understanding of RESTful APIs, authentication systems, and cloud deployments. Known for writing clean, maintainable code and translating complex requirements into efficient, business oriented solutions. Passionate about code optimization and contributing to collaborative, growth-focused engineering teams

## Technical Skills

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**Programming Languages:** JavaScript, TypeScript, HTML, CSS

**Backend:** Node.js, Express.js, Socket.IO

**Frontend:** React.js, Tailwind CSS

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

**DevOps / Tools:** Git, Docker, Nginx, AWS EC2

**Integrations:** JWT, OAuth, Payment Gateways, Email Services, WebSockets

**Other:** RESTful API Development, Postman

## Professional Projects

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### TravelMate — Travel Booking & Local Guide Volunteering Platform

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

A scalable multi-vendor travel platform for booking curated travel packages and connecting travelers with verified local guides.

Tech Stack: **TypeScript, Node.js, Express, MongoDB, Redis, Socket.IO, Stripe, Docker, AWS EC2**

- Architected a scalable backend using **Clean Architecture** and **SOLID principles**
- Implemented **multi-role authentication** (Traveler, Local Guide, Agency, Admin) using **JWT, OAuth**, and **OTP-based signup with Redis**
- Built a **local guide marketplace** enabling travelers to connect with real city residents offering **hourly-based guided services**
- Designed an **end-to-end booking workflow** with **real-time status updates** and **group coordination**
- Integrated **Stripe payments** and a **wallet system** supporting **hourly charges, advance payments, and refunds**
- Enabled **real-time chat** and coordination between travelers and local guides using **Socket.IO**
- Deployed **containerized services** using **Docker** on **AWS EC2**

### StepRight— E-Commerce Web Application

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

An eCommerce platform for selling shoes with secure payments, inventory management, and order processing.

Tech Stack: **TypeScript, Node.js, Express, MongoDB, Redis, Socket.IO, Stripe, Docker, AWS EC2**

- Built and integrated **RESTful APIs** using **Node.js** and **Express** with a **React front-end**
- Implemented **secure user authentication** using **JWT** and **Google OAuth**
- Developed core features including **order management, wallet refunds, and Razorpay payment processing**
- Followed a **modular back-end architecture with secure coding practices**
- Generated **downloadable PDF/Excel sales reports** and implemented a **dynamic coupon management system**
- Deployed the **back-end on AWS EC2** and the **front-end on Vercel** for scalable production deployment

## Additional Projects

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### Inventory Management System

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

A web-based system for managing inventory, customers, sales, and business reports with export capabilities.

Tech Stack: **Node.js, Express, MongoDB, Service Repository Architecture**

- Implemented **user authentication** and role-based access for secure system usage
- Built complete **inventory and customer management** with full **CRUD operations** and search functionality
- Developed **sales tracking** with customer-wise transactions and **ledger reports**
- Generated **sales, item, and customer reports** with support for **Print, PDF, Excel, and Email exports**

### Blog Management System

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

A secure blogging platform enabling users to create, manage, and publish posts with image support.

Tech Stack: **Node.js, Express, MongoDB / PostgreSQL, JWT**

- Implemented **user authentication and authorization** using **JWT**
- Developed complete **CRUD APIs for blog posts** with data validation
- Integrated **image upload functionality** and secure media storage
- Designed efficient **database schemas** for users, posts, and associated images

## Education & Training

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### Brototype — MERN Full-Stack Development Program

Sep. 2024 – Jan. 2026

*Certificate*

One-year full-stack program specializing in **MERN stack development**.

Focused on **scalable backend design** and **production-grade deployment**.

### B.Sc. in Computer Science

Mar. 2021 – Mar. 2024

Kannur University, Kerala

### Higher Secondary— Computer Science & Mathematics

Mar. 2019 – Mar. 2021

AKGSGHSS Peralassery, Kerala

## Key Achievements & Certifications

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- Designed and developed scalable full-stack applications using the MERN stack with TypeScript.
- Architected a multi-role travel platform (User, Vendor, Guide, Admin) following Clean Architecture and SOLID principles.
- Implemented secure authentication flows including JWT, OAuth, and OTP-based signup using Redis.
- Built real-time features such as group chat and booking status updates using WebSockets (Socket.IO).
- Integrated payment gateways, wallet systems, and refund workflows for production-ready applications.
- Deployed applications using Docker on AWS EC2 with environment-based configurations.
- Solved 150+ algorithmic problems, strengthening problem-solving and data structure fundamentals.