

# SUBHRATO SINGH

Full Stack Developer (React.js — Node.js — MySQL)

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## Professional Summary

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Full Stack Developer with **3 years of experience** in designing, building, and deploying scalable web applications. Strong expertise in **React.js, Node.js, Express.js, and MySQL** with hands-on experience in RESTful API development, CRUD operations, JWT-based authentication, and role-based access control. Proven ability to create responsive user interfaces, integrate frontend and backend systems, optimize performance, and deliver production-ready solutions across CRM, education, travel, and payroll domains.

## Technical Skills

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**Frontend Technologies:** HTML5, CSS3, JavaScript (ES6+), React.js, Next.js, React Hook Form, Tailwind CSS, Material UI, CSS Modules, Responsive Web Design, Mobile-First Design, Cross-Browser Compatibility

**State Management & Data Fetching:** Zustand, TanStack Query (React Query), REST API Integration, Axios, Fetch API

**Backend Technologies:** Node.js, Express.js, RESTful APIs, MVC Architecture, CRUD Operations, API Integration

**Databases & ORM:** MySQL, Sequelize ORM, Relational Data Modeling, Database Design, Complex Queries, Indexing, Transactions

**Authentication & Security:** JSON Web Tokens (JWT), Cookie-Based Authentication, Role-Based Access Control (RBAC), bcrypt, Input Validation, CORS, Environment Variables

**DevOps & Deployment:** Git, GitHub, npm, VPS Hosting, Windows Server, IIS Server (iisnode), Node.js Deployment, Production Build Setup, Domain & Port Binding

**Testing & Debugging:** Postman, Unit Testing Basics, Debugging, Chrome DevTools

## Professional Experience

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**Veenus Software Solutions, Amritsar** Jun 2024 – Present  
*Software Engineer*

- Full Stack Development:** Engineered web applications using React.js, Node.js, Express.js, and MySQL.
- Frontend Integration:** Developed responsive UI components and connected them with RESTful APIs.
- Security Implementation:** Applied JWT and RBAC for secure authentication and authorization.
- Performance Optimization:** Optimized backend logic and database queries to improve scalability.
- Collaboration:** Worked with cross-functional teams to deliver production-ready applications.

**Veenus Software Solutions, Amritsar** Jul 2021 – Jul 2022  
*Assistant Software Developer*

- Full Stack Support:** Contributed to Node.js, Express.js, React.js, and MySQL applications.
- UI/Backend Assistance:** Assisted in creating frontend components and integrating backend APIs.
- Debugging & Testing:** Performed code debugging, testing, and performance enhancements.

**VMM Education, Amritsar** Jan 2021 – Jun 2021  
*Full Stack Developer Intern*

1. **Hands-On Training:** Acquired experience in React.js, Node.js, Express.js, and MySQL full stack development.
2. **API Support:** Supported creation of RESTful APIs and database-driven applications.

## Projects

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**CRM System – Real Estate Company (Dubai)** React.js, TanStack Query, Zustand

1. **React.js & TanStack Query:** Built a scalable CRM frontend with reusable component architecture.
2. **State Management:** Integrated REST APIs using TanStack Query and Zustand for efficient data flow.
3. **Lead Handling:** Implemented workflows processing approximately 100–200 Meta-generated leads daily.
4. **Performance & Mentoring:** Enhanced frontend performance and guided two junior developers.

**University Website Development – Government University** React.js, Node.js, MySQL  
[sbssugsp.ac.in](http://sbssugsp.ac.in)

1. **Full Stack Development:** Designed and built a modular university website using React.js, Node.js, and MySQL.
2. **Admin Modules:** Created admin-managed notices, news, faculty profiles, and academic content.
3. **High Traffic Handling:** Integrated REST APIs and optimized performance for large daily user traffic.

**Academics, Conduct & Secrecy Modules** React.js

1. **Academic Modules:** Developed modules for student registration, courses, semesters, and fees.
2. **Examination Workflows:** Implemented attendance tracking, detention lists, and result reporting.
3. **Role-Based Access:** Administered approximately 200 staff members and 3,100 student records.

**B2B Travel Portal – Admin Panel** React.js

1. **Admin Panel:** Created a React.js interface for B2B agents and travel bookings.
2. **Onboarding & Verification:** Implemented agent approval and document verification workflows.
3. **Booking Reports:** Oversaw booking, cancellation, markup, and revenue reports for around 400 agents.

**Payslip Management System** Node.js, MySQL

1. **Payroll System:** Built an automated payroll system using Node.js and MySQL.
2. **Salary Management:** Administered salary structures, deductions, tax calculations, and monthly payslip generation.
3. **Data Security:** Maintained secure payroll data for approximately 150–200 users.

## Education

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**Master of Computer Applications (MCA)** 2022 – 2024  
 Amritsar Group of Colleges, Amritsar, Punjab

**Bachelor of Computer Applications (BCA)** 2015 – 2018  
 DAV College, Amritsar, Punjab

## Certifications

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**Full Stack Development (React.js, Node.js, MySQL)** – VMM Education, Amritsar, Punjab  
 Hands-on training in React.js frontend development, Node.js and Express.js backend development, RESTful API design, MySQL database management, frontend-backend integration, and secure authentication using JSON Web Tokens (JWT).