

# Satish Baghel

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## SUMMARY

**Full Stack Developer** with over 5 years of experience designing, developing, and maintaining scalable web applications using modern technologies including **JavaScript, React.js, Node.js, MongoDB, MySQL, Next.js**, and **microservices architecture**. Proficient in front-end development with React and JavaScript, and experienced in back-end development with Node.js. Skilled in database management using **Mongoose** (MongoDB) and **Sequelize** (MySQL), and in building and consuming **RESTful APIs**. Hands-on experience with **CI/CD pipelines, DevOps practices**, and deploying applications on **Google Cloud Platform (GCP)**. Delivered high-traffic platforms with over 100K users, reducing load times by 30% and boosting user engagement through clean, maintainable, and modern code.

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## SKILLS

**Frontend:** React.js, Javascript, HTML5, CSS3, Bootstrap, ReactStrap, Redux (Core & Toolkit), React Hooks, Formik, Tailwind CSS, Next.js

**Backend and Database Management:** Node.js, Express.js, MongoDB, Sequelize, MySQL, RESTful APIs, JWT Authentication, Microservices Architecture

**Version Control & Project Management:** GitHub, GitLab, Git, JIRA, Trello, Agile Methodologies

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## EXPERIENCE

### Software Engineer

Software and Technology Advanced Research Laboratory Pvt. Ltd.

January 2023 - Present, Pune, Maharashtra, IN

- **Led the front-end team** in developing and maintaining responsive interfaces using React.js and Redux for a platform with 100K+ active users, boosting user satisfaction by 20% across desktop, tablet, and mobile.
- **Integrated analytics tools**(Google Analytics, Mouseflow, custom events) in order to analyze 500K+ sessions of each user per month, improved main flows and improved conversion rates by 15%.
- **Implemented secure Stripe payment workflows**, handling more than \$250K/month with 100% PCI-DSS coverage and decreasing support tickets 40%.
- **Collaborated with backend teams** to integrated RESTful APIs with <200ms response time and 99.9% uptime with backend which improved data flow and cross-team efficiency by 30% through collaboration with backend teams.
- **Directed performance optimization efforts**, including code splitting and lazy loading, improving TTI from 4.5s to 3.1s and raising Lighthouse scores from 60 to 80.
- **Refactored legacy codebase and mentored junior devs**, cutting code duplication by 35%, reducing feature delivery time by 25%, and driving Agile delivery with a 95% sprint completion rate.

### MERN Stack Developer

Shiv Technolabs offers web development and software solution services.

August 2022 - January 2023, Ahmedabad, Gujarat, IN

- **Led the MERN stack team** to build and deliver 10+ full stack features' translating wireframes into factory ready modules and speeding by production by 30%.
- **Built and integrated 15+ secure RESTful APIs** with JWT-based authentication and CRUD operation, maintaining 99.9% uptime and organizing for data 50K+ users.
- **Directed development of internal admin tools**, streamlining content moderation and user workflows—cutting manual effort by 50% and improving moderation speed by 35%.
- **Built and using Managed CI/CD pipelines**, enabling automated, zero-downtime deployments across dev, staging, and production, cutting deployment time by 70%.
- **Promoted code quality and collaboration** through 100+ code reviews, and Agile ceremonies, fostering a high-performing and collaborative team culture.

### MERN Stack developer

SaturnCube Technologies

July 2020 - August 2022, Ahmedabad, Gujarat, IN

- **Started as an intern and grew into a Full Stack Developer**, contributing to end-to-end development of scalable web applications that supported 100K+ monthly users, while reducing technical debt by 30% through clean, modular code.
- **Developed 50+ projects using React.js** and achieved 99.8% cross-browser compatibility while also increasing mobile engagement by 20% by improving the UX across devices.
- **Developed secure and reliable RESTful APIs** using Node.js and Express.js, ensuring smooth data flow with over 99.9% uptime and fast response times under 200ms.
- **Increased our backend performance** by **adding** Redis caching and optimizing MongoDB queries cut our API response by 40% and server load by 25%.
- **Integrated and automated third-party services** including Stripe, SendGrid, and Google Analytics, enhancing system efficiency by 15% and reducing manual intervention by 25%.
- **Contributed to deployment and maintenance workflows**, participating in CI/CD processes, debugging production issues, and collaborating with cross-functional teams to ensure timely feature delivery and system stability.

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## PROJECT

Time2Enter

[time2enter.net](http://time2enter.net)

- **Developed a scalable React.js platform** 100,000+ active users 99.9% annual uptime 30% faster navigation.
- **Automated data entry (with Rabbit Bank integration)** to automate data entry and save up to 60% manual input time and finish the forms up to 35% faster.
- **Secured Stripe payment flows** with 100% PCI compliance and increased membership revenue by 45%.
- **Increased analytics visibility** with Google Analytics, Mouseflow and custom events and boosted the conversion rate by 20%.
- **Optimized UX through heatmaps and session recordings**, reducing bounce rates by 25% and increasing engagement by 15%.
- **Developed event-based modules** such as Control Sheet, Breed Assignment and Judging resulting in savings of up to 60% on scoring, scheduling and reporting.

## EV India

[evindia.online](http://evindia.online)

- Launched a fast and SEO-friendly platform using Next.js, which now gets over 10,000 visitors every month. I improved its load time by 40% and helped grow organic traffic by 25%.
- **Developed interactive tools** such as a side-by-side EV bike comparison tool and layer-able filters (brand, range, battery, etc) which drove time-on-site up 35% and dropped bounce rate by 20%.
- **Implemented a secure and component Master Admin Panel in React.js**, cutting admin task time by 50% through streamlined content and product workflows.
- **Built-in Google Analytics** for immediate user tracking, page insights & flow analysis to push continuous UX/UI enhancements.
- **Developed 35+ RESTful APIs** with Node.js/Express, ensuring real-time, low-latency communication with MongoDB backend.

## Elumat – Mathematical Learning Platform for K–8

[elumat.com](http://elumat.com)

- **Designed and built Elumat**, an interactive math-learning platform for K–8 students with gamified experiences to boost engagement and learning outcomes.
- **Developed responsive UIs with React.js**, optimized for desktop and tablet, leading to a 30% increase in task-completion rates during usability testing.
- **Built a dynamic question engine** covering 5+ math topics with adaptive difficulty, improving quiz accuracy by 25% and enhancing personalized learning.
- **Implemented worksheet generation with PDFMake**, allowing students to unlock hidden messages by solving problems—boosting satisfaction and effort.
- **Enabled batch export of 1,000+ reports**, reducing educators' weekly admin workload by 6+ hours through automated PDF creation and formatting.

## Lystigardar-(P.M.S)

[vinna.lystigardar.is/#/login](http://vinna.lystigardar.is/#/login)

- **Developed interactive UI components** using React.js, Reactstrap, Bootstrap 5, and CoreUI, accelerating development by 40% with reusable libraries.
- **Implemented multilingual support (English & Icelandic)** via i18n, enabling full dynamic language switching across all modules.
- **Followed modular, component-based architecture**, reducing code duplication by 25% and improving onboarding efficiency for new developers.
- **Ensured 100% cross-browser compatibility** through rigorous testing on 6+ major browsers, decreasing layout-related issues by 90%.
- **Resolved 15+ UI bugs and performance issues**, resulting in a 20% improvement in load time and overall interface responsiveness.

## Trading App

- **Developed a real-time trading platform** with role-based authentication (Investor, Consultant, Admin) with React.js, Node.js, MongoDB serving 5,000+ active users with secure, user-based dashboards.
- **Implemented real-time chat using Socket.io** to support 1000+ concurrent users across 20+ group rooms, enabling seamless stock tip sharing with latency under 200ms.
- **Integrated Zerodha and TradingView APIs** for stable trading and interactive charts, 98% more reliable trading and 30% higher user engagement.
- **Integrated Twitter API for stock sentiment analysis**, analyzed 10,000+ tweets / day to produce top 10 picks/day, 40% stock discovery.
- **Subscribed Billing enabled with Razorpay**, managing 500+ monthly transactions along with verifying webhook and automating access control.
- **Optimized UX and performance**, with a responsive React UI, JWT-based auth, and agile delivery practices—achieving 35% longer sessions and 100% on-time feature rollouts.

## Water Taker

- Developed 50+ efficient and reliable REST APIs using **Node.js, JavaScript, Express, and Sequelize (MySQL)**, maintaining sub-300ms response times and 99.9% uptime under high traffic.
- Optimized **MySQL query performance** and fine-tuned dynamic pricing logic, resulting in a **45% boost in query speed** and a **35% improvement in order processing**.
- Built backend functionality for **real-time updates**, delivering live pricing, order status, and delivery tracking every 10 seconds, achieving a **98% delivery success rate**.
- Enhanced platform **localization** by adding support for **English and Arabic**, and updating region-specific settings (e.g., currency and date format), which led to a **30% increase in user retention** in Dubai.
- Engineered **geolocation-based pricing and delivery tracking tools**, improving pricing transparency, cutting manual tasks by **40%**, and reducing customer complaints by 25%.
- Led **Agile sprints** using **Trello**, increasing team productivity by **20%** while ensuring platform **stability and scalability** during peak traffic periods.

## Inter Academy – Course Management Platform

- Built a **full-stack platform** to sell and manage **30+ courses**, featuring complete **admin control** over course creation, updates, and scheduling—streamlining content management by **40%**.
- Designed a **dynamic UI** using React, displaying real-time course information (name, date, time, price), improving **user engagement by 35%** and reducing bounce rates.

- Implemented a feature for **teachers to upload and share digital course books**, enabling **100% centralized content access** for enrolled students and reducing manual distribution efforts.
  - Created **15+ RESTful APIs** using Node.js and Express.js to handle authentication, attendance tracking, course data, and file uploads—enhancing system modularity and maintainability.
  - Managed **database operations for 500+ records** using Sequelize ORM, ensuring **99.9% data accuracy** and enabling seamless CRUD operations with relational data.
  - Ensured **seamless integration** between the React front-end and Express/Node.js back-end, resulting in **faster page load times** and a **20% improvement in user satisfaction scores**.
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## EDUCATION

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### Master of computer application - MCA

Ganpat University • Mehsana, Gujarat, IN • 2022

### Bachelor of science

Nootan Sarva Vidyalaya Kelavani Mandal Sanchalit • Visnagar, Gujarat, IN • 2019

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