

JAGESH SINGH FARTIYAL

Software Engineer | Full Stack Developer (React • Node.js • Electron)

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Uttarakhand

SUMMARY

Full Stack Software Engineer with over **4+ years of experience** building enterprise SaaS and cross-platform desktop applications using **React, JavaScript, TypeScript, Node.js, NestJS, Electron, and MongoDB**. Experienced in modernizing legacy applications, building scalable frontend and backend solutions, optimizing application performance, and owning cross-platform desktop products from development through production releases. Delivered measurable improvements including reducing page load time from **5+ seconds to under 1 second**, reducing **CPU utilization by 40–60%**, decreasing **Electron bundle size by 45%**, and strengthening desktop application security through application integrity verification.

SKILLS

- **Languages:** JavaScript (ES6+), TypeScript, HTML5, CSS3
- **Frontend:** React.js, JavaScript, TypeScript, Redux, Context API, React Router, Bootstrap
- **Backend:** Node.js, Express.js, NestJS, REST APIs, WebSockets, Webhooks
- **Desktop Development:** Electron.js, Cross-Platform Desktop Applications, Desktop Packaging, Auto Updates, Version Management
- **Database:** MongoDB, SQL
- **Cloud & Infrastructure:** DigitalOcean, AWS S3, Docker, Kafka, Nginx
- **Tools:** Git, GitHub, SonarQube, GitHub Copilot, ESBUILD, Prettier
- **Integrations:** Stripe, HubSpot APIs, Webhooks, Event-Driven Architecture
- **Development Practices:** Agile Scrum, Code Reviews, Performance Optimization, Requirement Gathering, Client Communication

PROFESSIONAL EXPERIENCE

Aapna Infotheek Pvt. Ltd.

Software Engineer

Apr 2022 – Present

Software Engineer Trainee

Dec 2021 – Mar 2022

Mera Monitor – Employee Monitoring Platform

Technologies: React.js, JavaScript, Redux, Context API, React Router, Electron.js, Node.js, AWS S3, ESBUILD

- Revamped the frontend of an enterprise employee monitoring platform serving **10,500+ daily active users**, modernizing legacy interfaces using React and improving overall user experience.
- Reduced initial page load time from **5+ seconds to under 1 second** by implementing route-level lazy loading, optimized code splitting, and React rendering optimizations.
- Designed reusable React component libraries including Calendar, Pagination, and Search modules, improving maintainability and accelerating feature development.
- Sole technical owner of the Electron desktop application across Windows, macOS, and Linux, managing development, packaging, code signing, versioning, production releases, and production support.
- Redesigned the desktop application's streaming architecture, reducing CPU utilization by **40–60%** under concurrent workloads while improving application stability.
- Reduced Electron bundle size from **350 MB to 191 MB** and installer size from **940 MB to 545 MB** through ESBUILD optimization, dependency optimization, and build process improvements.
- Redesigned the desktop auto-update mechanism using AWS S3 and implemented application integrity verification using cryptographic hash validation, improving update reliability while preventing execution of tampered binaries.
- Maintained high code quality through SonarQube issue resolution, conducted React code reviews, and mentored junior developers while collaborating directly with enterprise clients to deliver production-ready features.

IT Asset Management (ITAM) – Platform Redesign

Technologies: React.js, Node.js, NestJS, MongoDB, REST APIs

- Modernized a legacy IT Asset Management platform by migrating the backend from **PHP to NestJS**, improving maintainability and enabling scalable API development.
- Developed RESTful APIs and frontend modules simultaneously, contributing across the full stack to deliver new product capabilities.
- Built seller and buyer workflows with seamless frontend-backend integration to streamline asset management operations.
- Collaborated directly with enterprise clients to gather requirements, translate business needs into technical solutions, and deliver production-ready features.
- Developed webhook and API-driven integrations to automate data synchronization across enterprise systems.

NanoConnect – Enterprise iPaaS Platform

Technologies: Node.js, React.js, REST APIs, Webhooks

- Developed enterprise integration features connecting multiple business applications through REST APIs and webhook-based communication.
- Worked directly with clients to understand integration requirements, propose technical solutions, and deliver scalable product enhancements.

HubSpot Backup

Technologies: Node.js, HubSpot APIs, Stripe APIs

- Designed and implemented backup and restoration workflows supporting scheduled backups and point-in-time recovery for **millions of HubSpot CRM records**.
- Integrated **Stripe** subscription management to enable tiered plans, automated billing, and subscription lifecycle management.
- Built scalable backend workflows for secure backup, restoration, and management of enterprise CRM data.

EDUCATION

- **Bachelor of Technology in Computer Science**
Amrapali Institute of Technology and Science | 2018 – 2022 | 75.33%

CERTIFICATIONS

- React – The Complete Guide (incl. Next.js, Redux)
- Complete NodeJS Developer (GraphQL, MongoDB, + more)

AWARDS & RECOGNITION

- **Bomb of the Performance Award** (Received Twice) – Awarded by two different Vice Presidents for exceptional technical contribution, ownership, and project delivery.
- **Rising Star Award** – Recognized for outstanding performance, rapid growth, and consistent delivery.
- **1st Runner-Up** – Organization-wide Hackathon – Secured second place while competing against top engineering teams across the organization.
- **Organization-wide Chess Champion** – Winner of the company's chess championship.