

# SAROJ KUMAR SAH

## SOFTWARE ENGINEER

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### PROFESSIONAL SUMMARY

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Full Stack Developer with 3+ years of experience building scalable backend systems with Node.js and creating intuitive, responsive user interfaces using React. Skilled in clean architecture, API design, and optimizing performance. Proven track record of delivering production-ready applications while collaborating effectively with remote teams under tight deadlines.

### EDUCATION

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**BSc (Hons) Computer System Engineering**, ISMT, Kathmandu

2019 – 2023

### SKILLS

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**Languages:** JavaScript, TypeScript, Python, Golang

**Backend:** Node.js, Express.js, NestJS, Loopback, Django, Strapi CMS

**Databases:** MongoDB, PostgreSQL, MySQL, Oracle, Redis, TypeORM, Mongoose

**DevOps, CI/CD and Cloud Services:** Git, GitHub, GitLab, Bitbucket, Docker, Kubernetes, Nginx, Apache, DigitalOcean, AWS, GCP, Render, Vercel, GitHub Actions

**Frontend:** React.js, Next.js, Vue.js, Tailwind CSS, Material UI, Framer Motion, RizzUI

**State Management:** Redux, Zustand, Tanstack Query, RTK Query, React Hook Form

**Other:** Socket.IO, Linux, N8N ,Auto Scaling, Version Control

### WORK EXPERIENCE

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**Backend Developer**

March 2025 – Present

Probits Pty Ltd

*Lalitpur, Nepal*

- Built and maintained scalable backend systems using Node.js, NestJS, and Express to deliver reliable APIs for international clients.
- Developed RESTful APIs and integrated third-party services for authentication, analytics, and real-time notifications.
- Deployed applications to AWS and GCP, configuring auto-scaling and high availability for production environments.
- Set up version control and CI/CD pipelines using Git, GitHub Actions, and Bitbucket to streamline development workflows.
- Leveraged AI-powered tools to automate performance monitoring, testing, and backend operations.
- Collaborated daily with remote product and design teams to improve backend functionality and system architecture.
- Conducted code reviews, mentored junior developers, and participated in sprint planning and task estimation.

**Full Stack Developer**

April 2024 – April 2025

Silk Innovation Pvt. Ltd.

*Lalitpur, Nepal*

- Built and maintained scalable web applications using Node.js, NestJS, and PostgreSQL on the backend, and React on the frontend. Key projects included Jhattai Booking ,One-Sys ,Billin .
- Led efforts to containerize applications with Docker, set up Nginx for load balancing, and automated deployments using CI/CD pipelines on DigitalOcean and AWS.
- Boosted app performance by optimizing database queries, implemented both unit and integration testing, and ensured smooth API integration for a better user experience.

## Full Stack Developer

Supreme IT Solution

Feb 2023 – April 2024

Kathmandu, Nepal

- Designed and developed responsive, user-friendly web applications from initial concept through to deployment.
- Built secure and scalable backend systems, seamlessly integrated with dynamic frontends and third-party services.
- Worked closely with designers, product managers, and other developers to gather requirements, plan features, and deliver projects on time.
- Focused on performance optimization, accessibility, and ensuring compatibility across devices and browsers.

## Full Stack Developer (Intern)

Protech Nepal

Oct 2022 – Jan 2023

- Collaborated on all phases of software development from design to deployment.
- Built RESTful APIs and integrated secure authentication.

## PROJECTS

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### Hurry App

A Tinder-style e-commerce platform where users swipe to like or skip products. When users match with items from active vendor campaigns, they unlock exclusive discounts.

- Built backend logic for swipe interactions, product matching, and unlocking discounts based on campaign rules.
- Developed a vendor-facing campaign management system to create, track, and customize promotional campaigns.
- Implemented a multi-role architecture with permission-based access for users, vendors, and super admins.
- Added real-time chat between users and vendors, along with notifications for matches, order updates, and campaign alerts.
- Ensured secure authentication, session handling, and API rate limiting to maintain performance and protect user data.

### Homehandy (Link)

An online marketplace that connects homeowners with local service providers for on-demand tasks like cleaning, dog grooming, and lawn mowing.

(Test Credentials: email = *jyangoraj123+1@gmail.com*, password = *P@ssw0rd*)

- Built core backend features including user and business onboarding, property management, job posting, and secure payment flows.
- Designed a flexible dual-role system, allowing users to easily switch between customer and service provider profiles.
- Integrated Google Maps APIs for job-location matching, route optimization, and address validation.
- Developed real-time messaging and notification systems using WebSockets for better user engagement.
- Implemented secure authentication, role-based access control, and a modular backend architecture to ensure scalability and maintainability.

### Jhattai Booking App

A multi-service booking platform that allows users to schedule appointments for gyms, clubs, futsal, doctor visits, and more.

- Developed backend APIs to handle user registration, service bookings, and support for both online and offline payments.
- Created vendor modules to manage service packages, availability schedules, and real-time booking statuses.
- Implemented secure role-based access control and ensured safe data flow between users, vendors, and admin interfaces.

## One System App

An on-demand service booking platform for tasks such as laundry, electronics repair, and other household services.

- Built authentication and booking modules with support for customizable services and pickup/drop-off location handling.
- Implemented location-based service matching to assign nearby drivers to user requests efficiently.
- Developed backend logic to calculate fair pricing based on real-time distance, service zones, and delivery parameters.

## Billin (Link)

A SaaS platform used by FORD and OMODA to manage sales, invoicing, POS, and warehouse operations.

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- Developed scalable, responsive UIs using Next.js, Redux Toolkit, React Query, Tailwind CSS, and RizzUI.
- Implemented role-based access control and built modules for generating reports and invoices.
- Created reusable components, including a form builder and a table builder, that dynamically generate UI from JSON—improving development speed and maintainability.
- Contributed to the digital transformation of dealership operations for over 100 sales agents.

## Go\_ECL

An AI-powered forecasting platform that predicts bank loan recovery rates using economic data from the World Bank.

- Developed a full-stack system to fetch, process, and visualize recovery forecasts over customizable year ranges.
- Integrated large language models (LLMs) to analyze historical economic indicators and generate predictive insights for financial institutions.
- Designed an interactive dashboard allowing users to input parameters, trigger forecasts, and view results in real time.

## Full-Stack Real Estate Website (Live Demo)

A responsive platform for property listings featuring user authentication and advanced search functionality.

- Built secure authentication with signup, login, and profile management features.
- Enabled users to create and manage property listings for both rent and sale.
- Implemented smooth pagination to enhance search navigation and overall user experience.