

# Sandesh Hamal Thakuri

[sandeshhamal5890@gmail.com](mailto:sandeshhamal5890@gmail.com) | +977 981-514-1345 | Pokhara, Nepal

Open to Remote Roles | Flexible Timezone Overlap

[linkedin.com/in/sandesh-hamal-thakuri](https://www.linkedin.com/in/sandesh-hamal-thakuri) | [github.com/sssh199x](https://github.com/sssh199x)

## PROFESSIONAL SUMMARY

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Full Stack Developer with 5+ years of experience building production web and mobile applications for US-based companies using React, Next.js, Node.js, Java/Spring Boot, and Angular. Delivered enterprise analytics dashboards, e-commerce platforms, and cross-platform mobile apps as a remote contributor in US-distributed teams with Agile workflows (Jira, Slack, Git-based PR reviews). Strong in interactive data visualization, scalable API design (REST & GraphQL), and cloud-native deployments on AWS. AWS Verified Academy Educator.

## TECHNICAL SKILLS

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**Languages:** Java, JavaScript, TypeScript, SQL, HTML5, CSS3, Dart

**Frontend:** React, Next.js, Angular, Redux, Tailwind CSS, Sass/SCSS, Material UI, Bootstrap, Radix UI, Framer Motion, Figma

**Backend:** Node.js, Express, Spring Boot, Spring Cloud, Java Servlets/JSP, GraphQL, Apollo Server/Client, REST APIs, Swagger/OpenAPI, RabbitMQ, Kafka, Nginx

**Data Visualization:** D3.js, Recharts, ECharts, Chart.js, fl\_chart, Interactive Charts, Data Dashboards

**Databases & ORM:** PostgreSQL, MySQL, MongoDB, Redis, SQLite, Hibernate, JPA, Spring Data JPA, Mongoose, Prisma

**Cloud & DevOps:** AWS (EC2, S3, Lambda, ECS, API Gateway, RDS, Route 53, CloudFormation), Docker, Kubernetes, Jenkins, GitHub Actions, CI/CD, Vercel, Firebase, Linux

**Mobile:** Flutter, Dart, Bluetooth/IoT, Push Notifications, Offline Storage

**Architecture:** Microservices, Event-Driven, Domain-Driven Design, Clean Architecture, SOLID Principles, Agile/Scrum

**Build Tools:** Maven, npm, Gradle, Webpack, Vite, Yarn, Turbopack, Git

**Testing:** JUnit 5, Mockito, Jest, React Testing Library, Jasmine, TestBed, Cypress, Flutter Test

**Security:** OAuth2, JWT, Spring Security, NextAuth, RBAC, CSP Headers, HSTS, CORS

## WORK EXPERIENCE

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### Silverline Educational Consultancy – Freelance Web Developer

Jan 2026 – Present

[consultsilverline.net](https://consultsilverline.net)

*Independent developer — end-to-end delivery of a 2-page, 20+ section website from Figma designs through production deployment, CMS integration, and SEO optimization.*

- Built a responsive, mobile-first website using Next.js 16 (App Router), TypeScript, and Tailwind CSS v4 with three-breakpoint design across desktop, tablet, and mobile.
- Integrated Sanity v5 headless CMS with 14 content schemas and embedded Studio admin panel with on-demand ISR revalidation via webhooks for instant content updates.
- Achieved Lighthouse scores of 95+ Performance, 100 Accessibility, 100 Best Practices, and 100 SEO through static image imports, optimized next/image, blur placeholders, and code splitting.
- Executed comprehensive SEO strategy (JSON-LD structured data, auto-generated OG images, sitemap, canonical URLs) — site indexed on Google Search Console.
- Shipped contact form backend with CSRF protection, rate limiting, and email notifications via Resend — processing 88+ submissions since launch. Set up CSP headers, HSTS, and security hardening.

**Stack:** Next.js 16, React 19, TypeScript, Tailwind CSS v4, Sanity v5, GROQ, Framer Motion, GSAP, Vercel, Resend

### Two Ace Solutions (Intellity Contractor) – Full Stack Developer

Jul 2025 – Feb 2026

[thehouseofkaya.com](https://thehouseofkaya.com)

*Sole developer on the user-facing panel of Kaya — a 4-panel e-commerce platform serving 30+ products across 6 categories with product discovery, checkout, and multi-courier shipping.*

- Architected 17+ routes and 138+ React components, building a custom lightweight GraphQL client (no Apollo/urql) with automatic Bearer token injection, error handling, and AbortSignal cancellation.
- Applied multi-provider authentication (NextAuth 5) with email/password + Google OAuth, JWT session strategy, automatic refresh token rotation, and 30-day persistence.
- Crafted multi-step checkout flow integrating Stripe Hosted Checkout and Easyship API for multi-courier shipping rate comparison with session-based quote caching.
- Constructed product catalog with advanced filtering (debounced price sliders, multi-select categories, stock/size filters), user dashboard with address CRUD, order tracking, and wishlist.
- Delivered community features: validator claim verification system and promoter referral program with ref\_id tracking. Shaped mobile-first UI with 12+ Radix UI primitives and Framer Motion.
- Streamlined performance with Turbopack, tree-shaking, custom GCS image loader (WebP/AVIF), and 1-year caching. Established HSTS, CSP, COOP headers and XSS prevention via DOMPurify.
- Managed server state with TanStack React Query, client state with Redux, and form validation with React Hook Form + Zod. Tested components with Jest and React Testing Library, with Cypress for end-to-end validation.

**Stack:** Next.js 16, React 19, TypeScript, Tailwind CSS 4, Radix UI, GraphQL, NextAuth 5, TanStack React Query, Zod, Stripe, Easyship, GCS, Vercel

**Informatics College Pokhara (Innovate Nepal Group), Nepal** **Jul 2025 – Present**  
**Computing Instructor (Part-time) – London Metropolitan University Affiliated**

*Workshop-based instruction for 200+ students (7 sections) pursuing London Met computing degrees.*

- Lead hands-on workshops for Advanced Java (Servlets, JSP, JSTL, session management, filters, MVC) and Cloud Computing & IoT (AWS, embedded systems). Manage assignments via GitHub Classroom.

**Exosolve, USA (Remote)** **May 2024 – May 2025**  
**Senior Full Stack Developer – Java / Angular / AWS**

*Enterprise analytics dashboards for data-driven decision making. 15+ member cross-functional distributed team with Agile sprints, code reviews, and PR-based workflow.*

- Developed scalable enterprise features following Clean Architecture, Domain-Driven Design, and microservices patterns using Java 17 and Angular 17 with Spring Boot (Gradle), maintaining quality through JUnit 5 and Mockito test suites and PR-based code reviews.
- Designed interactive data visualization dashboards (D3.js, Recharts, ECharts) with 5+ custom chart components including bubble maps, heat maps, time-series, and tree diagrams.
- Integrated a conversational AI interface using Amazon Lex, enabling non-technical stakeholders to query data and generate reports through natural language.
- Architected RESTful APIs (Spring Boot, HATEOAS) following SOLID principles alongside GraphQL APIs with custom resolvers, reducing over-fetching for visualization-heavy interfaces. Enforced security with OAuth2, JWT, and Spring Security for role-based authorization.
- Assembled responsive Angular apps with lazy loading, modular design, NgRx state management, and Jasmine/TestBed unit tests. Implemented Redis caching layer, improving dashboard render times by 2x.
- Fine-tuned database operations (PostgreSQL, MySQL, MongoDB) with Spring Data JPA and Hibernate, optimizing query performance for data-intensive visualization pipelines.
- Deployed to AWS (Lambda, ECS, API Gateway, CloudFormation, Route 53) behind Nginx, containerized with Docker and Kubernetes via Jenkins CI/CD, using RabbitMQ and Kafka for event-driven communication.

**Stack:** Java 17, Spring Boot, Angular 17, TypeScript, NgRx, D3.js, Recharts, ECharts, GraphQL, Amazon Lex, Docker, Kubernetes, Jenkins, PostgreSQL, MongoDB, Redis, AWS

**Krofile, USA (Remote)** **Jan 2023 – Apr 2024**  
**Full Stack Engineer II (React/Node.js/Flutter)**

[krofile.com](https://krofile.com)

*Digital business profile platform with analytics, QR engagement, and review management. 20+ member team with Agile sprints and Git-based PR workflow.*

- Engineered cross-platform applications (12+ Flutter screens, React web app) using Flutter Web, Flutter Mobile, and React/TypeScript serving 30+ business profiles.
- Produced real-time analytics dashboards (Chart.js) displaying profile views, scan rates, click-through rates, and engagement metrics with drill-down capabilities. Implemented real-time engagement tracking via WebSockets with Firebase Cloud Messaging for push notifications.
- Structured RESTful APIs (OpenAPI, Node.js/Express) and GraphQL endpoints (Apollo Server/Client) for flexible data querying across dashboards and admin interfaces.
- Enhanced MongoDB aggregation pipelines using Mongoose and Prisma ORM for complex data transformations.
- Established secure authentication with MFA, JWT, OAuth2, and RBAC.
- Created theming engine with Sass/SCSS, Bootstrap, and Material UI for dynamic profile customization and QR code system with analytics tracking.
- Configured Nginx-based API gateway with rate limiting and response caching. Bundled React app with Webpack and managed state with Redux (React) and Provider, Riverpod, and Bloc (Flutter). Verified with Jest and Flutter Test.

**Stack:** React, TypeScript, Node.js, Express, MongoDB, Flutter, Dart, Redis, Chart.js, GraphQL, Apollo, JWT, OAuth2, WebSockets, AWS S3, Docker, GitHub Actions

## Brand Builders, Nepal

Dec 2020 – Jan 2023

### Flutter/Web Developer (Intern → Junior → Mid-Level)

*Progressed from intern to mid-level in 2 years within a 20+ member team. Led Rebuzz POS development and shipped 3+ cross-platform applications.*

- Directed a 6-member team building Rebuzz POS — retail management solution deployed to 30+ retailers with Flutter frontend and Node.js backend featuring real-time inventory tracking, multi-gateway payments, and offline-first architecture.
- Produced interactive sales analytics dashboards using fl\_chart with drill-down capabilities for sales trends, revenue analytics, and inventory insights.
- Shipped an IoT-connected electricity monitoring app with real-time data visualization and Bluetooth device connectivity for automated meter readings.
- Assembled Node.js/Express backend services with MySQL and MongoDB aggregation pipelines for reporting. Integrated Firebase for push notifications, analytics, and crash reporting.
- Configured state management using Provider, Riverpod, and Bloc, validated with Flutter Test for automated widget and integration testing.

**Stack:** Flutter, Dart, Node.js, Express, MongoDB, fl\_chart, SQLite, Provider, Riverpod, Bloc, REST APIs, Bluetooth/IoT, Material Design

## EDUCATION

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### Bachelor's in Computer Engineering

Pokhara Engineering College | Mar 2017 – Dec 2022

## CERTIFICATIONS

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### AWS Verified Academy Educator

Amazon Web Services