

MALISH SHRESTHA

Full-Stack Software Engineer

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SUMMARY

Full-stack software engineer with around 2 years of experience designing, building, and maintaining scalable web applications end-to-end - React, Next.js, and TypeScript on the front end, and Node.js, Express, Go, and Spring Boot on the back end. Experienced with relational and NoSQL databases (PostgreSQL, MySQL, MongoDB), RESTful API design, Docker-based deployment, and third-party, AI, and payment integrations. Has built business platforms spanning CRM, inventory, and payments, as well as real-time messaging and voice-communication systems. Works closely with designers, QA, and stakeholders in Agile teams to ship clean, well-documented, performant code.

SKILLS

Frontend: React, Next.js, TypeScript, Redux Toolkit, Responsive UI
Databases: PostgreSQL, MySQL, MongoDB, Redis, Prisma
Real-Time: WebRTC, Socket.IO, SSE, Pusher
DevOps & Cloud: Docker, CI/CD, AWS (EC2, S3, CloudWatch), Vercel
Tools: Git/GitHub, Elasticsearch, Postman, Swagger/OpenAPI

Backend: Node.js, Express.js, Go, Spring Boot, REST API Design
AI & Integrations: Google Gemini, Stripe, eSewa, third-party APIs
Auth & Security: Clerk, JWT
Languages: TypeScript, JavaScript, Go, Java, SQL

PROFESSIONAL EXPERIENCE

CedarGate Technologies

Associate Software Engineer

Sep 2025 – Mar 2026

- Designed and maintained RESTful APIs and business logic across 8+ modules of a large-scale backend, writing clean, reusable, production-grade code.
- Integrated Elasticsearch into the application, cutting search API response time from ~5 seconds to under 900ms to an 80%+ improvement.
- Troubleshooted and debugged distributed production systems with AWS CloudWatch, covering logging, alerting, and performance tracking; participated in code reviews.

Software Developer Intern

Mar 2025 – Sep 2025

- Investigated 30+ cluster incidents through APM and performance analysis, diagnosing latency spikes and slow response times across environments.

Pixelvirt Technology

Full-Stack Developer (Remote, Part-time)

May 2025 – Apr 2026

- Worked across the stack, building backend services in Go alongside responsive, real-time React/Next.js UIs for cryptocurrency and stock-forecasting tools using TradingView and live market APIs.
- Handled deployments in Dockerized environments, supporting consistent, reliable releases across development and production stages.
- Collaborated with UI/UX designers and backend teams to integrate and optimize RESTful APIs for seamless data flow between services.

Frontend Developer Intern

Jun 2024 – Mar 2025

- Launched the company's official website using Next.js and TypeScript, integrating RESTful APIs for data handling.
- Migrated state management from Redux to Redux Toolkit, reducing boilerplate and improving API data consistency across the codebase.

PROJECTS

CafeOS - Full-Stack Café Management Platform

- Built a full-stack POS and business-management platform with Next.js, PostgreSQL, and Redis, spanning QR ordering, inventory management, CRM with loyalty programs, cash reconciliation, and payment processing (eSewa).
- Delivered real-time kitchen-display streaming via SSE, a 3D floor-map editor (Three.js), an AI-powered analytics assistant, and an Inngest-backed saga pattern for post-payment consistency.

Nuvio - Real-Time Collaboration Platform | [GitHub](#)

- Built a real-time desktop collaboration platform (Next.js, Electron, TypeScript) with live messaging, WebRTC voice channels, collaborative whiteboards, and a pair-programming sandbox.
- Backed by PostgreSQL with Prisma ORM, Upstash Redis caching, Pusher Channels for real-time sync, and Clerk auth; shipped a packaged v1.0.0 desktop and mac release.

OLP-EduForge - Learning Management System | [GitHub](#)

- Built a full-stack LMS with a Next.js/TypeScript frontend and a Node.js + Express.js backend on MongoDB, with an admin panel for users, courses, and payments.
- Added real-time interaction via Socket.IO, Redis caching, Stripe payment processing, and Clerk/JWT auth; deployed on Vercel and Render.

Vocalith - AI Text-to-Speech SaaS Platform | [GitHub](#)

- Built a multi-tenant SaaS platform with org-based access control using Next.js, TypeScript, and tRPC, delivering type-safe end-to-end APIs on a Node.js runtime.
- Integrated PostgreSQL, Cloudflare R2 storage, and Clerk authentication; structured the codebase for scalability and clean separation of concerns.

EDUCATION

Deerwalk Institute of Technology

B.Sc. in Computer Science and Information Technology (BSc. CSIT)

2025