BINAMRA KHADKA

Full Stack Software Engineer | Ruby on Rails, Next.js, AI/LLM
Kapan, Kathmandu, Nepal | +977 9869327496 | binamra7khadka6@gmail.com
LinkedIn: linkedin.com/in/binamra7 | GitHub: github.com/binamra7 | Portfolio: binamrakhadka.vercel.app

PROFESSIONAL SUMMARY

Full Stack Software Engineer with over 2 years of experience in Ruby on Rails, Next.js, React, Node.js, and PostgreSQL. Cut endpoint response time from 3.2s to 1.2s through query and index work, migrated 500M+ database rows without data loss, and built AI features on RAG and MCP alongside real-time features over WebSockets.

TECHNICAL SKILLS

Languages: JavaScript (ES6+), TypeScript, Ruby, Python, Bash, HTML5, CSS3, SQL

Frameworks and Libraries: Ruby on Rails, Next.js, React.js, Redux, Node.js, Express.js, Fastify, Tailwind CSS

AI/LLM and Real-Time: Retrieval-Augmented Generation (RAG), Model Context Protocol (MCP), Tool Calling, LangChain, Vector Databases, WebSockets, Real-Time Systems, REST API Design

Databases and ORMs: PostgreSQL, MongoDB, MySQL, Redis, Active Record, Prisma, Mongoose

Testing and DevOps: Jest, RSpec, Docker, Docker Compose, Kubernetes, Sidekiq, Git, GitHub, GitLab, GitHub Actions (CI/CD), Linux, Postman, Vercel, Jira, Agile/Scrum

PROFESSIONAL EXPERIENCE

Software Developer | Bajra Technologies, Kathmandu, Nepal *June 2025 – Present*

- Build full-stack features with Next.js, TypeScript, and WebSockets for Bajra AI, an omni-channel inbox and AI call center with real-time voice agents and knowledge retrieval, handling 1,000+ daily customer interactions.
- Wrote custom MCP clients and servers with 15+ tool-calling functions for databases and internal APIs.
- Added RAG so AI answers draw on company knowledge bases and documents, cutting hallucinations.
- Built scalable backend features in Ruby on Rails and PostgreSQL and kept the application reliable.
- Led a 500M+ row database migration with near-zero downtime and no data loss, using Sidekiq background jobs.
- Cut endpoint response time from 3.2s to 1.2s by analyzing and rewriting slow ActiveRecord queries, reusing existing indexes, and adding new ones, which also lowered database load.
- Tuned Sidekiq queue priorities, retries, and concurrency limits, and reviewed peers' code against team standards.

Ruby on Rails Trainee | Bajra Technologies, Kathmandu, Nepal *March 2025 – June 2025*

- Worked in a team on a Game Hosting web platform, building REST APIs for game data ingestion, user accounts, and server state with Node.js, Express, and PostgreSQL. Joined daily stand-ups.
- Designed and ran the backend as containerized microservices with Docker and Docker Compose, keeping development and production environments consistent. Kept daily logs of architecture and code.

Full Stack Developer Intern | LineupAppQ, Remote *July 2022 – December 2023*

- Kept a production web app stable and fast for 1,000+ active users in an Agile/Scrum team.
- Integrated 5+ third-party REST APIs and WebSockets to add new features to the product.
- Debugged full-stack bugs reported by users and monitoring, and shipped fast hotfixes.
- Onboarded and mentored 3 junior interns and wrote internal codebase docs.
- Ran code reviews for security and tech debt, and researched modern web tooling to recommend updates.

PROJECTS

SLEEKSTORE E-Commerce Platform | React, Redux, Node.js, Express, MongoDB, Stripe *github.com/binamra7*

- Built a full-stack store with REST APIs for products, profiles, orders, and admin controls, plus bcrypt hashing, token sessions, and Stripe checkout. Added loading skeletons, inline validation, and error toasts.

Local RAG Assistant with MCP Integration | Python, MCP, LangChain, Vector Database *github.com/binamra7*

- Built a local assistant that answers questions from personal markdown notes (10,000+ chunks) using RAG and semantic search. A custom MCP server gives LLM clients access to local files, and answers cite their sources.

Responsive Landing Page | React, JavaScript, HTML5, CSS3, Vercel

- Mobile-first layouts tested in Chrome, Firefox, Safari, and Edge, deployed through GitHub and Vercel CI/CD.

EDUCATION

B.Sc. in Computer Science and Information Technology (CSIT) | Trinity College (Tribhuvan University), Kathmandu, Nepal *April 2021 – April 2025*