

SAMIN ISRAR RAVI

FULL STACK DEVELOPER

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OBJECTIVE

Full Stack Developer with 5+ years of experience in software development, specializing in Node.js and TypeScript backend systems. Skilled in building scalable, high-performance, AI-powered applications, optimizing user experience with Docker, AWS, Redis, Node.js, Nest.js, Express.js, React, and Next.js. Experienced in leading technical decisions, mentoring developers, and shipping production-grade SaaS, AI, and ERP-style systems end to end. Creator of open source tools and browser extensions, dedicated to enhancing developer productivity and user experience.

SKILLS

- **Backend:** Node.js, Express.js, Nest.js, PHP, Laravel, REST APIs, microservices
- **AI / LLM:** RAG pipelines, LLM routing (OpenRouter, OpenAI), vector search / embeddings, prompt engineering, BullMQ background job processing
- **Database:** MongoDB, SQL (MySQL, PostgreSQL), pgvector, Redis, Mongoose, Prisma, Drizzle
- **Frontend:** React, Next.js, Redux, Tailwind CSS
- **Systems & Tools:** Docker, AWS, VPS Management, Git, Nginx, Turborepo/pnpm monorepos, CI/CD, ClickUp, Discord
- **Other:** OOP, DSA, TypeScript, System Design, Chrome Extensions, npm Package Publishing

PROFESSIONAL EXPERIENCE

Full Stack Developer, Programming Hero | Dhaka, Bangladesh May 2023 - August 2026

- Lead the design and development of scalable full stack and backend systems using **Node.js, TypeScript, NestJS, Express.js, Next.js, PostgreSQL, MongoDB, Redis, Prisma, Docker, AWS, and Nginx**.
- Own key technical decisions across **system architecture**, API design, database modeling, authentication, caching, performance optimization, deployment, and code quality.
- Design modular and **microservice** oriented architectures with Node.js / NestJS, implementing secure REST APIs, role-based access control, validation, error handling, database transactions, and third party integrations.
- Work extensively with PostgreSQL, MongoDB, Prisma, Mongoose, and Redis, optimizing queries, designing scalable data models, and implementing caching strategies to improve application performance.
- Containerize and deploy applications using Docker and AWS, working with **VPS infrastructure**, Nginx, CI/CD workflows, and production deployment environments.
- Develop high performance applications with Next.js, React, TypeScript, Redux, and TanStack Query, implementing SSR, efficient data fetching, reusable component architecture, and scalable state management.

Software Engineer, IMS Systems | Manchester, UK October 2022 - April 2023

- Contributed to the frontend development of IMS **ERP system**, ensuring responsive and high-performance user interfaces.
- Implemented **React.js** components with reusable design patterns to improve maintainability and scalability.
- Styled and optimized layouts using **SCSS/SASS** for better modularity and performance.
- Developed and documented UI components with **Storybook**, improving design consistency and collaboration with backend and design teams.

Full Stack Developer, Genres Agency | Dhaka, Bangladesh September 2022 - October 2022

- Built and maintained full-stack web applications using **Next.js** for server-side rendering and improved SEO.
- Integrated and customized **Strapi** (headless CMS) to enable flexible content management and faster delivery.

- Designed and optimized database schemas in **PostgreSQL** to ensure smooth API and data flow.

Frontend Engineer, Betimeful Inc. | Toronto, Canada

August 2022 - September 2022

- Developed a Chrome extension ("Dopamine Detox") aimed at reducing procrastination by selectively hiding or blocking distracting social media / news feeds, improving focus and user well-being.
- Designed and managed state & interactions to support timed breaks and difficulty modes, allowing users to balance connection with productivity.
- Integrated with Chrome Extension APIs to control DOM manipulations (e.g. content hiding, feed blocking) and ensure extension performance doesn't degrade browser speed.

PROJECTS

Growth Studio – AI Content & Trend Intelligence Platform | [GitHub Repo](#) | [Live Link](#)

- Built an AI-powered SaaS platform that monitors tech trends (HackerNews, Dev.to, GitHub) and generates a full week of brand-voiced content for Facebook, YouTube, and LinkedIn in minutes.
- Designed a 4-layer ingestion pipeline (hash-based dedup, embedding-based relevance gate, deterministic trend scoring, LLM categorization) that gates expensive LLM calls behind cheap filters to keep AI cost near-zero at scale.
- Built RAG-based content generation and an "Ask Growth Studio" chat feature using OpenRouter LLMs, cosine-similarity retrieval over brand-voice examples, and Redis-cached generation.
- Backend: Node.js, TypeScript, MongoDB Atlas + Vector Search, Redis, JWT auth with role-based, multi-team access control. Frontend: Vite, React 19, TypeScript, Tailwind CSS.

EduNext – AI-Native Learning Platform | [GitHub Repo](#)

- Built an AI-native learning ecosystem that turns passive video lectures into interactive, RAG-grounded conversations with in-video checkpoint quizzes and per-student skill-mastery tracking.
- Architected a Turborepo/pnpm monorepo with a clear hot-path/cold-path split: an Express REST + SSE API for streamed, cited chat answers, and a BullMQ + Redis worker for async transcription, embedding, and quiz generation.
- Backend: Node.js, TypeScript, PostgreSQL with pgvector for hybrid dense + sparse retrieval, Prisma, Deepgram transcription, OpenAI embeddings, and a task-based LLM router across multiple model providers.
- Built an instructor-facing Assessment Engine and Bottleneck Predictor, plus a Credit Economy to bound AI cost and drive engagement. Frontend: Next.js, role-based access across student/instructor/admin.

University Management System

- Built a microservice-based system with authentication, payment, and core service modules.
- Backend: Node.js, Express.js, PostgreSQL, MongoDB, Redis, Prisma, Mongoose. Frontend: React, Redux, TanStack Query.
- Designed for scalability, performance, and modularity in enterprise-level environments.

Nexios HTTP (npm package)

- Developed a lightweight HTTP client library for Next.js & Node.js, inspired by Axios, with a promise-based API and simplified developer experience. Published to npm: [nexios-http](#).

EDUCATION

Bachelor of Science in Computer Science Engineering

May 2020 - 2024

University Of Liberal Arts Bangladesh (CGPA-3.89)