

Jobair Al Sarkar

Full Stack Software Engineer

Dhaka, Bangladesh

+8801766961460 | jobair.a.sarkar@gmail.com

github.com/jobairalsarkar1 • linkedin.com/in/jobair-al-sarkar • www.jobairalsarkar.com

Full Stack Software Engineer with 3 years of experience building production-grade web applications, backend systems, and modern frontend interfaces. Experienced in TypeScript based monorepo architectures, enterprise ERP platforms, and Kafka/CDC driven data pipelines. Focused on scalable backend systems, database engineering, and real-world system design.

Experience

Software Engineer

FringeCore_ (Full-time) – Dhaka, Bangladesh (On-site) | November 2025 – Present

- Contributing to a large-scale Hospital Information System and ERP platform for Asgar Ali Hospital, working across frontend, backend, and database layers in a TypeScript based monorepo architecture.
- Developed end-to-end type-safe APIs using tRPC to ensure consistency between frontend and backend services and improve maintainability across the platform.
- Built a CDC-based data synchronization pipeline using Kafka to support gradual migration from Oracle to PostgreSQL without disrupting existing hospital operations.
- Improved patient appointment and scheduling workflows by redesigning complex operational processes into streamlined system flows, while collaborating with business stakeholders and design teams to translate requirements into practical software solutions.
- Participated in system design and architecture discussions focusing on data flow, maintainability and long-term platform evolution.

Full Stack Engineer

Picture TV (Contract) – New York, United States (Remote) | Jun 2025 – Dec 2025

- Developed a full stack digital media marketplace for buying and selling images and videos using React, Next.js, Node.js, Prisma, and MongoDB.
- Designed authentication and role based access systems with JWT, magic links, and Stripe powered payment workflows to support secure user interactions and transactions.
- Built admin tools and content management workflows for handling users, events, blogs, and uploaded media across the platform.
- Contributed throughout the product lifecycle, including system architecture planning, scalable backend development, frontend implementation, and media delivery optimization.

Software Engineer Intern

Logic Matrix LLC (Full-time) – Manassas, Virginia, United States (Remote) | Feb 2025 – May 2025

- Developed and maintained full stack features using Next.js, React, Express.js, PostgreSQL, and Prisma.
- Integrated Azure AI Video Indexer for video insights, transcription, and automated media analysis workflows.
- Implemented subscription billing and authentication systems, and improved media delivery performance using Cloudflare.

- Collaborated with the engineering team on feature development, debugging, code reviews, and backend scalability improvements.

Full Stack Developer

Self-Employed (Freelance) | Jun 2023 – Oct 2024

- Delivered end-to-end web applications for international clients using Next.js, React, Node.js, and PostgreSQL/MongoDB.
- Built authentication systems, admin dashboards, and payment integrations based on client business requirements.
- Managed full project lifecycle including requirement gathering, architecture design, development, deployment, and client communication.

Skills

Languages: JavaScript, TypeScript, Python, Java, C#

Frontend: React.js, Next.js, React Native, Tailwind CSS

Backend & Systems: Node.js, Express.js, Django, Flask, .NET, Prisma, Monorepo Architecture, tRPC, Kafka/CDC Data Pipelines

Databases : PostgreSQL, MongoDB, Oracle

Cloude & DevOps: Cloudflare, AWS, Docker, Git, CI/CD

Projects

Redaxify – AI-Powered Video Indexing Platform

[View Live](#)

- Built an AI driven video processing platform using Azure Video Indexer and Azure OpenAI for transcription, summarization, and automated insights.
- Developed backend services using Node.js, Express.js, and TypeScript to handle media workflows, authentication, and API integrations.
- Implemented secure video upload, processing, and playback using Azure Cloud Storage with role-based access control.
- Integrated Stripe for subscription management and payment workflows to support SaaS monetization.

Envkeyring– Encrypted Environment Variable Manager CLI

[Npm Package](#)

- Built a CLI based encrypted environment variable management system for teams and monorepos using Node.js and TypeScript.
- Implemented AES-256-GCM encryption with secure key derivation to protect sensitive .env values while keeping configuration metadata version controlled.
- Designed CLI workflows for init, seal, unlock, and reseal operations with filesystem based project discovery and environment handling.
- Developed developer tooling to simplify environment setup and eliminate manual secret sharing across engineering teams.

Education

Bachelor of Science in Computer Science

Brac University, Bangladesh | Oct, 2021 – Sep, 2025

Relevant Course Work: Operating Systems, Software Engineering, System Design, Data Structures & Algorithms