

Tanvir Ishtiaq

Senior Software Engineer | AI Software Engineer | Technical Lead | Research Assistant

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PROFESSIONAL SUMMARY

Senior Software Engineer with 5+ years of experience leading engineering teams and building enterprise SaaS, AI-powered platforms, Retrieval-Augmented Generation (RAG) systems, cloud-native applications, and scalable full-stack solutions. Experienced in technical leadership, system architecture, LLM integration, enterprise API design, and software engineering research.

EXPERIENCE

Panorama Management Advisory Services LLC

Senior Software Engineer | Jan 2025 – Present | Remote

- Lead the engineering team, technical strategy, architecture decisions, sprint planning, code reviews, and engineering best practices.
- Architect enterprise AI products and SaaS platforms.
- Designed and implemented a production RAG platform using embeddings, semantic retrieval, and LLM orchestration.
- Integrated Gemini/OpenAI for intelligent assistants, automated reports, and assessment insights.
- Designed middleware integrating 27+ third-party APIs.
- Led cloud infrastructure, CI/CD, deployments, and platform scalability.
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Software Developer | Dec 2022 – Dec 2024

- Developed enterprise assessment platform using React, Next.js, Node.js, Express, GraphQL, and Google Cloud.
- Built dashboards, backend services, analytics, and AI-enabled features.
- Collaborated with third-party Odoo engineers on ERP integrations and workflow automation.

BRAC University

Research Assistant (Part-time) | May 2026 – Present

- Conduct research in Management Information Systems (MIS), Human-Computer Interaction (HCI), Digital Transformation, and Design Science Research.
- Design, develop, and evaluate information systems using the Design Science Research Methodology (DSRM).
- Assist in research design, survey development, usability evaluation, statistical analysis, and publication preparation.

Eventizer Limited

Software Developer → Senior Software Developer | July 2022 – December 2022

- Developed multi-vendor event management platform and AWS cloud infrastructure.

Roots Edu

Software Developer | 2021 January – 2022 January

- Built configurable role-based EdTech platform.

LEADERSHIP, COMMUNITY & IMPACT PROJECTS

Connect BRACU — Founder & Volunteer Software Engineer

- Built a course seat availability platform used by 2,000+ BRAC University students during advising.
- Implemented automated email notifications when seats become available.
- Designed scalable monitoring, backend services, and production deployment.

Age of Empires II Bangladesh Community — Volunteer Software Engineer

- Developed Discord automation platform for community management.
- Built leaderboard, ranking, matchmaking, and team formation systems.
- Automated moderation, role management, and server administration.

Stories of Change — Lead Software Architect & Technical Consultant

- Led software architecture and provided technical consulting for Stories of Change digital platforms.
- Architected and guided development of the Climate Atlas platform.
- Designed scalable architecture for interactive climate storytelling and visualization.
- Contributed to a climate initiative supported by EBL and Grameenphone and featured by national media.

TECHNICAL SKILLS

AI: RAG • LLM Integration • OpenAI • Gemini • Prompt Engineering • Semantic Search • Embeddings

Languages: JavaScript • TypeScript • Python

Frontend: React • Next.js • Redux • React Native

Backend: Node.js • Express • GraphQL • REST • Socket.IO

Cloud: Google Cloud Run • AWS • Docker • CI/CD • Vercel

Enterprise: Odoo ERP • API Integration

Databases: MongoDB • DynamoDB • Firebase

EDUCATION

BRAC University

B.Sc. Computer Science

Expected Graduation: January 2027

Rajuk Uttara Model College

SSC 2019, HSC 2021