

KARTIK CHANDRA BISWAS

Senior Software Engineer & Cloud Solutions Architect | AI Engineer

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PROFESSIONAL SUMMARY

Senior Software Engineer and Cloud Solutions Architect with 15+ years architecting and owning enterprise systems end-to-end — not implementing tickets within a larger team, but defining the architecture, leading delivery, and carrying production accountability at lean, senior-heavy engineering organizations. Currently building Project Sentinel, a multi-agent AI system using RAG, vector search, and LLM orchestration to detect drift between requirements, design, and delivery in real engineering workflows. Microsoft Certified Azure Solutions Architect Expert (AZ-305), Azure Administrator Associate (AZ-104), Azure AI Engineer Associate (AI-102), and Azure Data Scientist Associate (DP-100) — four certifications spanning infrastructure, architecture, and applied AI. Full-stack depth across .NET/C#, Angular, React, Azure, and AWS, with direct experience serving international clients.

CORE COMPETENCIES

AI Engineering: Azure OpenAI, RAG & Vector Embeddings, LangChain, Multi-Agent Systems, Azure AI Search, Cognitive Services, Prompt Engineering, Human-in-the-Loop Design

Cloud & Architecture: Microsoft Azure (App Services, Azure ML, Functions, Key Vault, Monitor), AWS (S3, CloudFront, Lambda), Microservices, Clean Architecture, Domain-Driven Design, REST, WCF

Machine Learning: Azure Machine Learning, Scikit-learn, Pandas, Transformers

Languages: C#, Python, JavaScript, TypeScript, VB.NET, Java

Frameworks & Frontend: .NET / ASP.NET Core, Node.js, Angular, React.js, Next.js

DevOps & Infrastructure: Azure DevOps, GitHub Actions, Docker, Kubernetes, CI/CD Pipelines

Data Platforms: SQL Server, PostgreSQL, MySQL, MongoDB, Cosmos DB

Leadership & Process: Agile (Scrum/Kanban), Azure DevOps Boards, JIRA, Confluence, Cross-Functional Team Leadership, Mentoring

CERTIFICATIONS

- Microsoft Certified: Azure Solutions Architect Expert (AZ-305)
- Microsoft Certified: Azure Administrator Associate (AZ-104)
- Microsoft Certified: Azure AI Engineer Associate (AI-102)
- Microsoft Certified: Azure Data Scientist Associate (DP-100)
- Microsoft Certified Solutions Developer (MCSD): Web Applications
- Microsoft Certified Professional (MCPS)
- Microsoft Certified Solutions Developer (MCSD): App Builder

PROFESSIONAL EXPERIENCE

Senior Software Engineer

IT Magnet · ~20-person engineering organization

Mar 2024 – Present

Dhaka, Bangladesh

- Sole architect for an enterprise platform built from zero for international clients — owned the full system design, including workflow automation, modular architecture, and role-based portals, with direct accountability for production outcomes.
- Designing and building Project Sentinel, a multi-agent AI system that detects drift between meeting notes, requirements documents, and Azure DevOps tasks using RAG, vector embeddings, Azure OpenAI, Azure AI Search, and a human-in-the-loop approval layer across eleven coordinated agents.
- Built AI-based notification systems and document intelligence features into the core platform, extending it beyond standard CRUD workflows into applied automation.

- Led a team of 4 developers as the senior-most technical owner, setting architecture direction and reviewing all design decisions before implementation.
- Owned the full delivery pipeline — Azure deployment, CI/CD, Docker, and access-control policy — with no separate DevOps function to hand off to.
- Ran requirements and architecture discussions directly with clients, business analysts, and PMs, translating ambiguous business asks into buildable technical specs.

Senior Software Engineer

Sep 2014 – Feb 2024

SoftwarePeople | Wunderman Thompson · ~255-person organization

Dhaka, Bangladesh

- Architected a multi-tenant third-party authentication platform on Okta from scratch, becoming the system other engineering teams integrated against rather than building their own auth.
- Designed and led development of a custom User Management System adopted organization-wide, replacing fragmented per-project access control.
- Owned the migration of legacy SharePoint 2010 infrastructure to SharePoint 2019 and Azure — a multi-year modernization with zero dedicated migration team, run alongside ongoing feature delivery.
- Built reusable ASP.NET Core frameworks paired with Angular and React frontends, becoming the standard foundation multiple project teams built on top of.
- Integrated AWS S3 and CloudFront to secure storage and delivery for a digital asset library at millions-of-objects scale.
- Operated as technical lead across nearly a decade, mentoring engineers and owning agile delivery cadence — the senior continuity point as the org scaled and projects rotated.

Senior Lead Software Engineer / Assistant Manager

Jan 2012 – Aug 2014

The Databiz Software Limited · ~35-person organization

Dhaka, Bangladesh

- Led a 20-person team as team leader and lead developer delivering Brand Share, a brand and advertising management platform used by enterprise clients including Dell.
- Served as sole architect and developer on multiple end-to-end systems, including a ration management platform for Bangladesh Police and a POS/retail system — full ownership from database design through deployment.
- Owned technical architecture and final design sign-off across the engineering org's desktop and web products (C#, WPF, ASP.NET MVC).
- Led UI development using AngularJS and Node.js, and ran code review and engineer training as the most senior technical authority on the team.
- Represented the company in client demonstrations and technical exhibitions, owning delivery end-to-end from architecture to client-facing presentation.

Software Engineer

Jun 2008 – Dec 2011

The Databiz Software Limited

Dhaka, Bangladesh

- Built applications end-to-end — UI, database design, stored procedures, and complex SQL — establishing the architecture-first habits carried through the rest of the career above.

EDUCATION

M.Sc. in Computer Science

2014

Jahangirnagar University, Dhaka, Bangladesh

B.Sc. (Hons) in Computer Science & Engineering

2008

State University of Bangladesh, Dhaka, Bangladesh