

# Amit Kumar Biswas

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## PROFESSIONAL SUMMARY

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AWS-certified Data Engineer experienced in building production-grade data platforms on AWS. Expertise in Python, SQL, and serverless architecture for ETL/ELT pipelines, real-time data ingestion and streaming, and analytics-ready data modelling. Hands-on experience delivering GenAI solutions with Amazon Bedrock, including RAG pipelines, LLM evaluation, and AI-powered automation. Comfortable owning the full data platform lifecycle from architecture through deployment and monitoring.

## CERTIFICATIONS

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AWS Certified Data Engineer – Associate — Amazon Web Services (AWS)

## TECHNICAL EXPERTISE

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Data Engineering:	ETL/ELT pipelines (batch & streaming), Apache Kafka (AWS MSK), event-driven architecture, data modelling (Star Schema, Dimensional, Medallion), data quality monitoring & validation, schema design & query optimization, REST API ingestion
GenAI & ML:	Amazon Bedrock (Nova, Titan), RAG pipelines, LLM evaluation & benchmarking, prompt engineering, Amazon Transcribe, semantic chunking, knowledge base design
Cloud & Platform:	AWS MSK, Redshift, Athena, S3, Glue (Data Catalog, Crawlers), Lambda, Step Functions, API Gateway, Cognito, CloudWatch, IAM, Lake Formation, Bedrock, DynamoDB, CloudFormation, AWS CDK
Programming:	Python (advanced), SQL (window functions, query optimization), TypeScript, JavaScript, Bash
Engineering Practices:	CI/CD (GitHub Actions, AWS Amplify), Docker, Agile/Scrum, system design, code review, technical mentorship

## EXPERIENCE

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### Data Engineer — Rebura Ltd

May 2025 – Present · London, UK

- Designed and maintained production-grade AWS data platform (MSK, RDS, Lambda, Redshift) supporting internal and client-facing BI reporting in Salesforce.
- Built automated ETL pipelines in Python (Glue, Step Functions) ingesting data from Jira, Confluence, and CloudHealth APIs, reducing manual reporting effort by ~40%.
- Developed RESTful APIs using Python (AWS Chalice), API Gateway, and Cognito for secure internal and client-facing data access.
- Optimized Redshift query performance through distribution and sort key tuning, improving dashboard load times and reducing compute costs.
- Built an internal GDPR data deletion tool using Python and Lambda with automated scheduling via Step Functions/EventBridge and full audit logging for compliance reporting.
- Architected an event-driven AI document generation pipeline using Amazon Bedrock (Nova Lite V2), processing raw transcripts into structured content via LLM and rendering production-ready PDF assets.
- Built a serverless GenAI pipeline integrating Bedrock Titan Image Generator for artwork enhancement and Amazon Transcribe for speech evaluation, with real-time job tracking.
- Collaborated with analysts and architects on data maturity assessments, improving modeling standards and reporting reliability.

**Software Engineer — WellDev Ltd.**

Jun 2021 – Dec 2023 · Dhaka, Bangladesh

- Designed and built backend APIs and data flows using TypeScript and RESTful architecture, serving as the primary data layer for production web applications.
- Improved application data throughput and response times by ~30% through caching strategies, query optimization, and modular service design.
- Led backend architecture and development of an internal recruitment platform with live video upload pipeline, replacing a costly third-party integration.
- Mentored junior developers, reducing onboarding time from 7–8 weeks to 4 weeks and improving code review standards across the team.

**Junior Full-Stack Engineer — Magpie Analytics**

Oct 2020 – May 2021 · Dhaka, Bangladesh

- Developed backend services for a fintech application using Python, FastAPI, and PostgreSQL, supporting KYC, OTP, and licensing workflows - app reached 1,000+ downloads within months of launch.
- Integrated Microsoft Power BI data into a subscription analytics platform via FastAPI, enabling self-serve reporting for non-technical stakeholders.
- Implemented secure authentication and validation workflows ensuring regulatory compliance across financial data processing flows.

**EDUCATION**

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**University of Salford**

Jan 2024 – May 2025 · Manchester, UK

MSc Data Science (Distinction)

Distributed Systems, Machine Learning, Data Mining, Statistical Modelling. Dissertation commissioned by Rebura Ltd.

**United International University**

Jan 2017 – Nov 2021 · Dhaka, Bangladesh

BSc Computer Science &amp; Engineering (First Class)

Database Management, Competitive Programming, Pattern Recognition