

Sany Ahmed

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PROFESSIONAL SUMMARY

Senior Software Engineer with over 10 years of experience designing scalable backend systems, microservices, and cloud-native applications. Skilled in Python, FastAPI, JavaScript, PostgreSQL, Docker, Redis, AWS, REST, Terraform, gRPC, and data engineering. Proven track record of developing high-performance APIs, cloud infrastructure, automated deployment pipelines, and reliable data platforms.

TECHNICAL SKILLS

Languages: Python, PHP, JavaScript, SQL.

Frameworks & APIs: FastAPI, Flask, Django, React, gRPC, REST.

Databases, Cache & Search: PostgreSQL, MySQL, MongoDB, Redis, Elasticsearch, Apache Kafka, Impala.

Cloud & DevOps: AWS (RDS, S3, EC2, ECS, ECR, Lambda, CloudWatch, CloudFront, EventBridge, Athena, Redshift, etc.), GCP (CE, BQ, CS, Cloud APIs, etc.), Docker, Kubernetes, Terraform, CI/CD, GitHub Actions.

AI / LLM Engineering: RAG, MCP, Embeddings, Vector Search, Semantic Search, PgVector, PostGIS

Observability & Testing: ELK stack, Datadog, Git, Integration Testing, Functional Testing, API Testing.

PROFESSIONAL EXPERIENCE

Software Engineer L4 — Backend (*Bitsware Ltd*) August 2025 – Present

- Developed and maintained Python-based cron jobs and batch-processing workflows, using Quartz and BOB Monitor for job monitoring and operational troubleshooting.
- Performed data migration and processing with Impala, Hadoop, Hue, and Python scripts, including data transformation and validation.

Tech Stack: Python, Flask, Oracle, SQL, Impala, Hadoop, Hue, BOB Monitor, Cron Jobs, Data Migration

Senior Software Engineer — Backend (*Safara formerly Skipper*) May 2021 – July 2025

- Designed and delivered scalable backend services using Python, FastAPI, and gRPC, enabling faster inter-service communication.
- Implemented Redis-based API rate limiting and caching, improving application performance and resilience under heavy traffic.
- Developed microservices and serverless AWS Lambda workflows for media content processing.
- Built automated CI/CD pipelines with GitHub Actions to improve scalability & deployment reliability.

Tech Stack: Python, FastAPI, Django, gRPC, PostgreSQL, Redis, Docker, Terraform, GitHub Actions, AWS (ECR, ECS, Lambda, RDS, ElastiCache, CloudWatch, CloudFront, Route 53, DynamoDB, EventBridge)

Software Engineer — Backend (*W3Engineers Ltd.*) Jan 2014 – Mar 2021

- Developed OZ, a high-volume analytics platform handling millions of events and transactions.
- Built a Search Tweaking System for location- and segment-based personalization, improving user retention and search relevance.
- Migrated search and analytics workloads from Elasticsearch to PostgreSQL, improving query performance and reducing infrastructure costs by 23%.
- Developed cron-based automation and ETL pipelines that power multiple high-traffic travel websites via secure REST APIs.

Tech Stack: PHP, JavaScript, Python, FastAPI, MySQL, Elasticsearch, PostgreSQL, AWS (DynamoDB, RDS, S3, EC2, Athena, OpenSearch, Route 53, ElastiCache, Redshift), Jira, Postman

EDUCATION

B.Sc. in Computer Science, CGPA-3.72, Jashore University of Science and Technology, Bangladesh