Aranya Dutta

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Experience

AntBox Technologies July 2026 – Ongoing
Software Developer Intern *Bhubaneswar*

- Engineered **JWT-based auth flows in Go** (login, password reset/change), standardizing auth across **3+ internal applications** and eliminating recurring credential-related tickets.
- Designed **4+ REST APIs** related to in-house HRMS portal and built the GitHub Actions pipeline for Continuous Integration and Continuous Development.
- Worked on client companies' Help Article portal and designed the sync mechanism of updated Help Articles, significantly reducing upload-to-live-website time.

Projects

Momotaro | *Go, gRPC, Apache Kafka, PostgreSQL, Redis, Docker, Kubernetes* Aug 2026

- Architected a **9-service event-driven microservices platform in Go** for autonomous financial recovery, using **gRPC** for all synchronous inter-service RPCs and a partitioned **Kafka** backbone (with a dead-letter queue) to decouple ingestion from processing, enforcing strict `internal/` package boundaries so services stay independently deployable within a single Go module.
- Designed a durable **idempotency and crash-safety model**. Postgres `UNIQUE`-constrained insert-before-execute writes, single-transaction state+audit commits, and contiguous-offset-prefix Kafka commits, guaranteeing **exactly-once financial actions** under at-least-once delivery with zero audit-trail gaps on a mid-batch crash.

Carzz | *Go, gRPC, RabbitMQ, WebSockets, OpenTelemetry, Docker* May 2026 – July 2026

- Architected a scalable **ride-sharing platform** using microservices in Go with **gRPC** for inter-service communication and **RabbitMQ** as the message bus for fault-tolerant event processing.
- Implemented **real-time driver tracking** via WebSockets and distributed tracing using **OpenTelemetry + Jaeger** across all microservices for end-to-end request visibility.

CloudKitchen | *Go, Kubernetes, NATS JetStream, PostgreSQL, Redis, GCP*

- A food-ordering platform split into **eight Go microservices** (authentication, restaurants, menus, orders, payments, delivery, notifications, users), communicating asynchronously over **NATS JetStream** so a slow payment step never blocks checkout.
- Each service owns its own **PostgreSQL** database, caches reads in **Redis**, and exposes health, readiness, and **Prometheus** metrics endpoints; **Grafana** dashboards and **Loki** aggregate logs and metrics across the cluster.
- Deployed the platform to **Google Kubernetes Engine** using Helm charts, with GitHub Actions automating image builds and deployments.

Technical Skills

Languages: Go, Python, Java, C, C++
Technologies: gRPC, REST APIs, Docker, Kubernetes, MongoDB, Kafka, Redis, Prometheus, OpenTelemetry
Concepts: Microservices Architecture, Distributed Systems, Event-Driven Architecture, Observability, API Design

Certification & Achievements

- **Google Cloud Skill Badges** (hands-on labs): Kubernetes in Google Cloud · Cloud Computing Fundamentals — Badge
- **IBM DevOps and Software Engineering** Professional Certificate, Coursera (15-course specialisation). — Credential
- **JLPT N5** · Japanese Language Proficiency Test, December 2025; currently preparing for N3. — Certificate
- **2nd Runner-up**, ICDCIT Hackathon 2024, competing against 100+ teams. — Certificate
- **Competitive Programming:** Codeforces Pupil · LeetCode rating 1623 · GeeksforGeeks 450+ problems solved.

Education

Kalinga Institute of Industrial Technology 2023 – 2027
Bachelor of Technology in Computer Science Engineering: CGPA: 8.09 / 10.00 *Bhubaneshwar, Odisha*