

Juno Gong

289-689-1050 | junogong4@gmail.com | linkedin.com/in/junogong

SKILLS

Languages: Python, Java, TypeScript, JavaScript, SQL

Frameworks: React, Node.js, Express.js, Flask, Spring Boot, pandas, NumPy

Cloud & Databases: AWS (EC2, DynamoDB, ElastiCache, Cognito), Google Cloud Platform (BigQuery, Cloud Functions, Dataform), Docker, Terraform

EDUCATION

University of Toronto

Graduated Sept. 2025

Bachelor of Science in Spatial Data Science

EXPERIENCE

Associate Data Engineer

Sept. 2023 – Jan. 2024

Clearsum (Climate Risk Analytics Firm)

Toronto, ON

- Modernized the firm's analytical capabilities by migrating to the latest global climate standards, significantly increasing the accuracy and variety of client-facing metrics.
- Engineered a serverless ETL pipeline to ingest large-scale datasets from external APIs into a centralized data lake.
- Implemented a normalization algorithm to merge redundant data sources, reducing the total storage footprint by 95% while maintaining data integrity.
- Refactored compute-intensive queries, reducing execution time by 85% and infrastructure costs.
- Designed the business logic to convert raw data inputs into a standardized risk index used directly in client-facing reports.
- Deployed 3 interactive dashboards, enabling clients to visualize complex climate risk metrics.

PROJECTS

Stakt.live (Market Arbitrage Site) | *React, Node.js, AWS, Jest*

- Built and launched a platform that captures arbitrage market opportunities in real-time, providing users a competitive edge while maintaining low operational overhead.
- Architected a low-latency arbitrage engine utilizing Redis caching to process thousands of live odds updates per day, reducing external API calls.
- Designed a high-throughput NoSQL schema to efficiently store and query historical betting data with single-digit millisecond retrieval times.
- Engineered a GitHub Actions CI/CD pipeline to automate Jest unit testing and deployment, ensuring code reliability prior to release.
- Secured user identities using AWS Cognito and managed sensitive infrastructure secrets using AWS Systems Manager to prevent API abuse.

Stripe Billing Engine (SaaS Subscription System) | *Java 21, Spring Boot, PostgreSQL, Docker*

- Engineered a flexible subscription backend using Hexagonal Architecture to isolate core business logic from infrastructure dependencies and adapters.
- Implemented an atomic idempotency filter and Transactional Outbox pattern to ensure exactly-once processing of financial webhooks, eliminating race conditions.
- Optimized throughput using Java 21 Virtual Threads to handle thousands of concurrent I/O-bound requests with minimal memory footprint.
- Built a resilient recovery system featuring circuit breakers and exponential backoff retry queues to gracefully manage downstream database failures.