

# Ravik Ganguly

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## LINKS

LinkedIn:// [ravik-ganguly](#)

Github:// [g-ravity](#)

## SKILLS

### LANGUAGES

Golang • Javascript • Python • Typescript

### FRONT-END

React • Next.js • Jotai • Tailwind

### BACK-END

Golang • Node.js • NestJS • ExpressJS • gRPC

### DATABASES

PostgreSQL • MySQL • MongoDB  
Redis • ElasticSearch • ClickHouse

### MOBILE

React Native • Flutter

### CLOUD & INFRASTRUCTURE

AWS • GCP • Terraform

### DEVOPS

Docker • Kubernetes • Jenkins  
Grafana • Prometheus • Sentry

### ARCHITECTURE

Microservices • Event-Driven  
System Design • API Design

### TOOLS

Kafka • RabbitMQ • Jest

## EXPERIENCE

### DHAN YOJANA | SENIOR SOFTWARE CONSULTANT

July 2024 - Present

- Led architecture design and implementation of algorithmic trading system processing 1000+ transactions per minute
- Engineered core trading engine in Golang, leveraging goroutines and channels for concurrent strategy execution
- Built modular microservices for strategy signals, risk management, trade execution and order management
- Built Shield, a robust type-safe API client in TypeScript with comprehensive error handling, retries, and observability
- Developed Hermes, a high-performance event processing service in Golang handling 1000+ events/minute with guaranteed order execution
- Developed Plotchart, a comprehensive backtesting platform for trading strategies with configurable parameters and interactive visualizations
- Designed and implemented CI/CD pipelines on GCP with automated testing, deployment, and rollback capabilities

### RAILOFY | SDE 2

Feb 2022 - June 2024 • [railofy.com](#)

- Built high-throughput data pipeline in Golang, handling 10K+ daily PNR records with 97% accuracy
- Developed resilient scraper services with IP rotation, captcha bypass, and fault tolerance mechanisms
- Implemented scalable pricing service processing millions of train availability data points for dynamic insurance offers
- Engineered an event-driven notification framework using Kafka for reliable delivery of 10K+ daily notifications across multiple channels
- Optimized database queries and implemented caching strategies, reducing API response times by 65%
- Led migration of critical services from Node.js to Golang, improving throughput by 2x and reducing resource utilization
- Designed and implemented comprehensive monitoring and alerting system using Grafana, Prometheus and ELK stack

### YELLOW CLASS | FULLSTACK SDE 2

Aug 2020 - Jan 2022 • [yellowclass.com](#)

- Architected and developed scalable admin panel with NSFW filters handling operations for customer support team, incorporating role-based access control
- Implemented performance optimizations for MongoDB, improving query response times by 80% through indexing and query restructuring
- Designed and developed distributed file processing system handling video content using Dropbox API, S3, and AWS MediaConvert
- Engineered content recommendation system using ElasticSearch and RabbitMQ with 40% improvement in user engagement
- Developed high-performance PDF certificate generation service in Golang, processing 1K+ certificates daily with dynamic templating

### AFRICAN PRICE | FREELANCE DEVELOPER

May 2020 - Jul 2020

- Designed a scalable Q&A platform with microservices approach using React and Node. Implemented auth & rate limiting
- Developed custom rich text editor extending DraftJS with specialized formatting capabilities for domain-specific content