Ravik Ganguly

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LINKS

LinkedIn: ravik-ganguly
Github: g-ravity
Twitter: the_gravityguy
Blogs: @ravikganguly

EDUCATION

JADAVPUR UNIVERSITY
Bachelor of Engineering, Information Technology
June 2020 | Kolkata, India
CGPA: 7 / 10

CALCUTTA PUBLIC SCHOOL
High School
Grad. May 2016 | Kolkata, India
Percentage: 95.3%

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

PROJECTS

Glitch Art Generator
Terminal Blackjack

EXPERIENCE

DHAN YOJANA - Founder & CTO
July 2024 - February 2025
- Led architecture design and implementation of proprietary 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 AWS with automated testing, deployment, and rollback capabilities

RAILOFY - Software Development Engineer 2
February 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 Software Developer 2
August 2020 - January 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 - July 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