

WAISON LEE

Backend Engineer

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Dedicated and detail-oriented backend engineer with a solid background in Golang development, database architecture, and system design. Expert in creating scalable, high-performance back-end services and integrating them seamlessly into comprehensive business solutions. Proven ability to leverage Go's concurrency model and its efficient compilation mechanism to deliver robust applications.

PROFESSIONAL EXPERIENCE

Esplanade Ventures, Montreal, Canada

11/2022 – 12/2023

Back End Engineer

- Specialized in server-side logic using Golang to enhance scalability and performance of SaaS MVPs.
- Designed RESTful APIs prioritizing clean, maintainable code and efficient Go routines, ensuring swift data transfer between services.
- Optimized existing database schemas, focusing on data integrity and transaction speed using PostgreSQL and MongoDB.
- Spearheaded the adoption of Docker containers to streamline development and production workflows for Go-based services.
- Implemented extensive unit testing and benchmarking in Go, resulting in an increase in code reliability and service uptime.

Merlino Software Agency, Subang Jaya, Malaysia

07/2020 – 11/2022

Back End Engineer

- Developed a distributed warehouse management system (WMS) with a focus on back-end development in Golang, featuring an RFID/SKU tracking system that increased online sales by 25%.
- Automated complex workflows through custom-developed Go modules, which reduced operational overhead and improved system efficiency.
- Enhanced real-time IoT monitoring systems by engineering performant Go services to process vast streams of sensor data efficiently.
- Led initiatives to optimize system-level resource utilization using Golang's native concurrency primitives, resulting in a 200% improvement in response times.

OCS Malaysia, Shah Alam, Malaysia

06/2019 – 07/2020

Back End Developer

- Engineered high-frequency algorithmic trading platforms with a core focus on backend development in Golang, achieving exemplary processing speeds and minimal latency.

- Orchestrated microservices architecture conversion, leading to more cohesive and independently scalable back-end systems written in Go.
- Pioneered the implementation of CI/CD pipelines for Go-based applications, optimizing deployment processes using Jenkins and Kubernetes.
- Designed secure billing systems and integrated payment gateways emphasizing back-end stability and transactional integrity.

Orpheus, Calgary, Canada

06/2015 – 07/2019

Software Developer

- Refined and managed server-side applications primarily using Go and Node.js, aligning backend functionalities with industry best practices.
- Conducted backend optimization for multiple data-driven applications, improving performance and reducing latency.
- Developed and optimized several interactive dashboards using D3.js and React.js for real-time data visualization and reporting.
- Collaborated closely with frontend teams to ensure API contracts were met and optimized for fast, reliable data delivery.

EDUCATION

University of California Irvine, Irvine, CA

04/2011 - 08/2015

Masters Degree in Computer Science

PROFESSIONAL SKILLS

Languages: Go, Javascript, TypeScript, Python, C#

Frameworks: Echo, Gin, Chi, Gorilla Mux, Go Kit, gRPC-Gateway, Node.js, .Net, Django

Infrastructure: Docker, Kubernetes, AWS (EC2, S3, RDS, ECS)

Storage: PostgreSQL, MySQL, MongoDB, SQLite, Redis, InfluxDB

Tools & Platforms: Git, GitHub Actions, GitLab CI, Jira, Grafana, Prometheus

Concepts: Microservices, API Design, System Scaling, Concurrency, Distributed Systems

Project-based Experience

1. WMS with RFID/SKU tracking system

Developed the back-end for a cloud-native warehouse management system using Go, which included designing a MongoDB schema and implementing APIs for Zebra RFID printers/readers integration.

2. Boat Renting Web Application

Architected a low-latency, high-throughput trading platform's backend utilizing Golang. This involved deploying gRPC for inter-service communication and developing algorithms for real-time data analysis.