

IVANDER Jonathan Marella Waskito

Singapore Permanent Resident

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About me

Backend Software Engineer that delivers corporate level quality with startup level speed. Bachelor's degree with High Distinction from National University of Singapore. Gold Medalist for International Physics Olympiads. Certified AWS Solutions Architect.

Skills & Tech Stack

- Languages: C#, Java, Go, Python, C++, C, SQL, JavaScript, Bash
- Frameworks: .NET, ASP.NET Core, Spring Boot, Gin, Flask, React
- Cloud & AI: AWS, Azure, Docker, Kubernetes, Prompt Engineering, Agentic AI, Spec-Driven Development
- Data & Monitoring: MySQL, PostgreSQL, NoSQL (InfluxDB, Elastic), Prometheus, Grafana, Jaeger, ETL Flows
- Security & QA: TDD (Unit/Integration), SAST/DAST (SonarQube, Semgrep), Secure Coding, Perf Test (JMeter)

Experience

The Software Practice, Singapore Backend Software Development Engineer (L2)

May 2023 – Now

Software Consultancy for Public Sectors

- Developed and maintained 2 large-scale distributed internet and intranet web applications for HSA that is in charge of managing licenses, products, and internal routing for 10M+ nation-wide listings
- Led rapid-iteration development cycles and direct UAT presentations with end-users across two major projects, incorporating daily feedback to ensure technical deliverables perfectly aligned with business requirements
- Architected a centralized multi-protocol authentication gateway (ADFS, CAMS, SG Corppass) for high-compliance government systems, streamlining interoperability and securing 40,000+ monthly sessions
- Overhauled a pattern similarity and matching feature to accomodate increased scale by 100x normal usage where now it supports for up to 10M devices done in under 7 days through AI-assisted development
- Slashed the planned system downtime from 2 days to 2 hours and accelerated database insertion speeds by 20x by architecting a custom EFCore Interceptor on our custom ETL process while keeping complex constraints accurate
- Boosted AI agent coding accuracy by 90% across a 999,000-line codebase by engineering a custom Model Context Protocol (MCP) that performs deep semantic analysis on code entrypoints and method call trees
- Acted as the sole engineer to build a custom ETL data pipeline, securely migrating 2M+ distributed records across 1,000 tables (50GB RDB, 200TB file storage) and guaranteeing a highly available rollout for 40,000 enterprise users
- Ensured \$ 100k total monthly transactions in Stripe and GIRO goes smoothly by monitoring and maintaining finance component including workday integration
- Optimized system stability under heavy operational load, achieving rapid resolution for 500+ critical production tickets in 7 months, by implementing targeted root-cause patches and comprehensive monitoring enhancements

Shopee, Singapore Shopee SRE Intern, Traffic & Techops team

May 2022 – Nov 2022

- Engineered a company-wide web announcement platform using Golang and Gin framework, enabling real-time communication for 500+ employees and improving internal awareness by 40%
- Instrumented traffic infrastructure APIs and servers with Prometheus metrics, building Grafana dashboards and alerting pipelines that enabled 24/7 SLO monitoring and maintained 95% reliability targets across Shopee's traffic layer
- Reduced infrastructure attack surface by automating discovery and decommissioning of 1,000+ non-Shopee maintained domains, subdomains, and proxies via Bash scripting, cutting manual security audit time and eliminating orphaned assets

Education

National University of Singapore

Aug 2019 – May 2023

Bachelor of Engineering (Honors) in Computer Engineering

- Highest Distinction with CAP: 4.7/5.0, Dean's List, ASEAN Scholarship awardee from Singapore MOE

Certifications & Achievements

[Certified AWS SAA-C03](#)

Issued Feb 2025, Valid until Feb 2028

[GovTech Digital Academy / NUS-ISS Certification](#)

Issued Jul 2023, valid until Jul 2026

[Gold Medal, European Physics Olympiad](#)

2019