

# Gerald Bendryandre Sihotang

Software Engineer | Backend Engineer

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📍 Jakarta, Indonesia

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🐙 [github.com/geshtng](https://github.com/geshtng)

🇮🇩 Indonesian

🔗 [geshtng.github.io](https://geshtng.github.io)

## Profile

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Experienced backend engineer skilled in building scalable applications, streamlining deployment processes, and ensuring quality assurance. Proficient in mastering new technologies and delivering reliable solutions across development, staging, and production environments.

## Education

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2016 – 2020

### Bachelor of Applied Science in Software Engineering

North Sumatera,  
Indonesia

*Institut Teknologi Del* 📄

A bachelor program that aims to provide a learning process that fosters high reasoning skills, creativity, and abilities that can be communicated and applied in various fields of life.

## Skills

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Databases (SQL, NoSQL)

Programming Languages (Go, C++, Javascript)

Tools (Git, Grafana)

## Languages

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• English

• Bahasa Indonesia

## Professional Experience

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2023/01 – present  
Jakarta, Indonesia

### Engineering Infrastructure - Network Operation Center Engineer

*Sea Labs Indonesia* 📄

- Provide essential monitoring and troubleshooting for Shopee's services using Grafana and custom scripts, escalating critical issues.
- Conducted root cause analysis on critical system issues, leading to a 15% reduction in recurring incidents through targeted improvement plans.
- Developed automation scripts in Python, Go, and ReactJS, reducing manual interventions by 30% and improving NOC response times by 30%.
- Coordinated server troubleshooting for NIC, memory, and disk issues by liaising between data center engineers and business units, ensuring timely issue resolution and system reliability.

Tech stack: Go, Python, ReactJS, MySQL, Grafana

2022/07 – 2023/01  
Jakarta, Indonesia

### Junior Fullstack Engineer

*Sea - Shopee* 📄

- Completed a six-month structured training program focused on software engineering fundamentals, mastering best practices with Golang and ReactJS.
- Developed a full-stack web application using ReactJS and TypeScript for frontend and Golang for backend.

Tech stack: Go, Javascript, Typescript, ReactJS, PostgreSQL, MySQL, Redis

2021/06 – 2021/09  
Indonesia

### Junior Software Engineer

*Pinhome* [↗](#)

- Engineered and optimized Pinhome's backend by refactoring APIs and optimizing database queries, improving service reliability by 20%.
- Contributed to the migration of Pinhome's service from semi-monolith to microservices by developing key backend services, improving scalability and performance.
- Designed and implemented a database migration script, streamlining the transition to microservices and improving system performance.
- Created comprehensive unit tests, achieving ~98% code coverage using Go testing frameworks, significantly reducing production bugs and improving QA.
- Refactored Pinhome's service to clean code.

Tech stack: Go, PostgreSQL, Grafana, Retool

2020/10 – 2021/05  
Indonesia

### Software Engineer

*Transfree* [↗](#)

- Designed, built, and improved Transfree's admin service, reducing response time by 40% and improving user experience.
- Integrated third-party services (WhatsApp OTP, Email OTP, Digital Wallet), enhancing the system's authentication process.

Tech stack: Javascript, MongoDB

2020/06 – 2020/07  
Kabanjahe, Indonesia

### Fullstack Engineer - Intern

*PT. PLN (Persero)*

- Developed a backend service using Go and PostgreSQL to monitor PLN's payment systems in Karo, North Sumatera.
- Developed an Android mobile app in Java for employee monitoring, enhancing management's ability to track attendance and performance metrics.

Tech stack: Go, Java, Android, PostgreSQL

2019/06 – 2019/09  
Jakarta, Indonesia

### Software Engineer - Intern

*Tokopedia* [↗](#)

- Developed, enhanced, and bug-fixed a highly-concurrent distributed system for TokoPoints services, improving system capacity by 25%.
- Collaborated with software engineers, business development, and product managers to design and deliver TokoPoints features, resulting in a 15% increase in user engagement.

Tech stack: Go, Javascript, PostgreSQL, Redis, GraphQL, Grafana, NSQ, gRPC

## Awards

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2019/06

### Finalist Competitive Programming

*ICPC Ideafuse 2019*

- Team based with 3 members.
- Achieved finalist status in ICPC Ideafuse 2019, demonstrating exceptional problem solving skills and algorithmic thinking.
- Competed among top programmers from ~40 teams around Indonesian universities.
- Enhanced teamwork and collaboration skills by participating in team-based coding challenges.

2018/02

### Finalist Competitive Programming

*ITFest USU 2018*

- Team based with 3 members.
- Became the top 10 rank list.
- Competed among top programmers from ~20 teams around Indonesian universities.

2017/05

**Finalist Competitive Programming**

*IToba Fest 2017*

- Individual competitor-based.
- Competed among the top programmers among 30 college students around Indonesian universities.

2017/11

**Finalist National Seminar**

*Seminar Nasional Teknologi Informasi dan Komunikasi di Daerah Rural (SNaTIKRa)*

- Team based with 3 members.
- Provided an idea to solve problems in rural areas in North Sumatera in the tourism sector.

2017/02

**Finalist Competitive Programming**

*ITFest USU 2017*

- Individual competitor-based.
- Became the top 10 rank list.
- Competed among the top programmers among 20 college students around Indonesian universities.