# Jonathan Yudi Gunawan

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Infrastructure Engineer experienced in cloud platforms, database reliability, and automation. Proven success in scaling distributed systems and building developer tooling. Award-winning competitive programmer with strong problem-solving skills, passionate about making systems faster, safer, and more efficient.

## Experience

**GoToFinancial (Gopay) | Infrastructure Engineer - Database**

*Aug 2022 - Present*

- Built a **developer portal** used by hundreds of microservices to manage databases.
- Orchestrated large-scale **cloud migration** from AWS to Alicloud.
- Led **self-service database upgrades**, migrating 300+ Redis instances with minimal downtime in under 3 months.
- Deployed and maintained highly-available PostgreSQL Clusters across 100+ databases.
- Automated infra deployments (Kafka, Redis, Consul) with **Terraform + Ansible**, cutting setup time from days to hours.

**Xendit | Infrastructure Engineer Intern**

*Jun 2022 - Aug 2022*

- Provisioned pilot infrastructure project using Terraform and Ansible, adopting Infrastructure as Code practices.

**Garena | Backend Developer Intern**

*May 2021 - Jun 2022*

- Developed multi-region backend systems for in-game web events, supporting 200K+ participants and 10K+ daily logins within 2 weeks.

**Xtremax | Backend Developer Intern**

*May 2020 - Aug 2020*

- Introduced unit testing on a national-scale government website, increasing coverage up to 20% of the codebase.

## Selected Projects

**Payment Gateway**                                                                                    **Golang / GRPC / Kubernetes**

- Developed a scalable order management system, built in microservice architecture. Containerized application and deployed using Kubernetes.

**Minecraft Server Dashboard**                                                            **React / Python / Google Cloud Run**

- Built a real-time dashboard to control and monitor Minecraft servers.
- Automated start/stop workflows and performance tracking, deployed on the cloud.

**Property Marketing Agreement System**                                      **Python / Google Drive / Tally / Cloud Run**

- Digitalized property marketing agreements with auto-generated PDF and e-signature support.
- Reduced paperwork and streamlined contract handling for agents and clients.

**E-commerce with Admin Dashboard**                                                                          **MERN / Node.js**

- Designed a microservice-based chocolate shop with an integrated admin portal.
- Built across 4 subsystems for scalability and modularity.

**Class Presence Scheduler**                                                             **Python / Selenium / Line ChatBot**

- Automated attendance reporting for scheduled university classes.
- Reduced manual efforts for students to mark presence.

**Masyu Puzzle Solver**                                                                                            **Python / OpenCV**

- Developed a puzzle solver using computer vision (OpenCV) and constraint-solving algorithms.

## Achievements & Awards

**Silver Medalist, ICPC Asia Singapore Regional (2020) – Ranked Top 12 National Team (Indonesia).**

- An official international competitive programming competition.

**3rd Place, ITB - NTUST Cloud Computing Hackathon (2019)**

- Built a self-hosted Werewolf game with Alexa AI in 24h.

**Top 100 Global, IEEExtreme 14.0 (2020)**

- Ranked 88th out of 3700+ teams worldwide in a 24h global programming contest.

## Education

**Institut Teknologi Bandung (ITB), Bachelor of Informatics, GPA: 3.78/4.00**

*Aug 2018 - Aug 2022*

**Bangkit Academy, led by Google (Cloud Computing path)**

*Feb 2021 - May 2021*
- Selected to be 1 of 3000 from 40K+ applicants. Learned best practices for cloud-based projects

## Certifications

- Google IT Automation with Python
- Cloud Engineering
- Deploy and Manage Cloud Environments
- Full certification record available on [Qwiklabs Profile](#)