

# Jonathan Nicholas

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## EDUCATION

### University of Indonesia

Bachelor of Science in Computer Science, GPA: 3.87/4.0

Depok, Indonesia

2023

## EXPERIENCE

### Researcher

University of Indonesia

Jan 2023 – May 2023

- Wrote thesis titled Load Balancing Analysis on App Performance in Geo-Distributed Kubernetes Clusters.
- Developed and deployed application to geo-distributed Kubernetes clusters using multi-cluster resources on GCP.
- Configured Istio service mesh for location-aware load balancing and measured performance using Vegeta load test tool.

### Backend Engineer Intern

Traveloka.com

Aug 2022 – Dec 2022

- Integrated Salesforce and Datadog Monitoring & Alert using Terraform, AWS Lambda, and Java.
- Increased user engagement by creating routing logic for Traveloka Priority users using Java and Terraform.
- Automated GitHub release tag using Github Actions.

### Backend Engineer Intern

Ruangguru.com

Feb 2022 – Apr 2022

- Prevented millions in losses by integrating rate limiting on hundreds of services using Go, Kubernetes, Istio, and Envoy.

### Software Engineer Intern

Dekoruma.com

Jun 2021 – Jan 2022

- Increased Paid GMV by 100M by adding Shipping Calculation Info using Django REST Framework and React Native.
- Improved revenue, traffic, and SEO by developing dekoruma.com/artikel using NextJS, React Query, and Algolia.

### Software Engineer Intern

OY Indonesia

Sep 2020 – Mar 2021

- Increased revenue by 30% by developing end-to-end Promo Code feature using Flutter with BloC state management.
- Applied Data Access Object(DAO) and Model Controller Service(MCS) Design Patterns in Java Backend architecture.
- Utilized RabbitMQ for publishing and consuming events to validate user eligibility on promo codes and rewards.

### Software Engineer Intern

Mekari.com

Jul 2020 – Sep 2020

- Developed and automated Backend using Python, Selenium, and AWS (Amplify, Lambda, Secrets Manager, S3, SES).
- Utilized Docker, AWS-CLI, and serverless CLI to create and deploy AWS Lambda dependency layers.

## PROJECTS

### Ajaib.co.id Decentralized Crypto | Blockchain, Ethers, Smart Contracts, React Native

- Developed features such as importing multiple wallet addresses, token swap, and transactions (transfer/receive tokens).
- Automated Downloadable Android APK generation using Gitlab CI/CD and Expo.

### Compfest.id | NextJS, NodeJS, Hasura, GraphQL, Tailwind

- Led a team of 12 developers with agendas such as design documents, system designs, task distribution, and code review.
- Designed and developed systems for recruitment and e-commerce app.

### Portfolio and Blog | React, Gatsby, Tailwind, Framer Motion

- Impacted over 2000 connections through a LinkedIn article documenting the process of making this project.

### Blood Donation App | React, Chakra-UI, Django REST Framework

- Connected the Indonesian Red Cross with blood donors across Indonesia.

## ACHIEVEMENTS

Finalist, The 2022 ICPC Asia Jakarta Regional Contest | Ranked 18th nationally 2022

Fourth Winner, Competitive Programming GEMASTIK | Ranked 4th nationally 2022

Round 2, Facebook/Meta Hacker Cup 2022 | Ranked 869th out of 12.330 participants in Round 1 2022

Top 650 Internationally, Google Kickstart 2022 Round E | Ranked 11th nationally 2022

Finalist, The 2021 ICPC Asia Jakarta Regional Contest | Ranked top 40 internationally 2021

Silver Medalist, Data Mining GEMASTIK | Presented on classification using CatBoost 2020

Third Winner, Data Mining JOINTS UGM | Ranked 1st out of 10 in finals (kaggle) 2020

Third Winner, Data Science Arkavidia ITB | Ranked 1st out of 360 in preliminaries and 3rd in finals (kaggle) 2020

## SKILLS

**Languages:** Python, Go, Java, C++, Javascript, Typescript, Dart

**Back End:** Django REST Framework, NodeJS, Hasura, Spring Boot, Apollo-Server

**Front End:** React, NextJS, Gatsby, React Native, Flutter, Redux, Apollo-Client, React-Query, Tailwind

**Developer Tools:** Git, Docker, Kubernetes, Istio, AWS, GCP, Redis, PostgreSQL, RabbitMQ

**Coursework:** Data Structures and Algorithms, Software Development, Database, Design Patterns, Operating Systems