Jonathan Nicholas

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EDUCATION

University of Indonesia — Depok, Indonesia
Bachelor of Science in Computer Science, GPA: 3.9/4.0 — *2023*

EXPERIENCE

Backend Engineer — *Atome.sg* — Jul 2023 – Present
- Integrated Lazada PayLater API on multiple countries using Java Spring, Kubernetes, and Rancher.
- Collaborated with teams across platforms (Lazada, etc) to develop and maintain payment services.
- Demonstrated knowledge mastery in products through successful Financial Services Authority (OJK) audits.

Student Researcher — *University of Indonesia* — Jan 2023 – May 2023
- Wrote "Web Application Performance Analysis of Multi-Region Geo- Distributed Kubernetes Clusters" thesis.
- Deployed 3-tier web 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* — Jan 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.

PROJECTS

Portfolio and Blog | *React, Gatsby, Tailwind, Framer Motion* — 2020 - Present
- Impacted over 2000 connections through a LinkedIn article documenting the process of making this project.

Ajaib.co.id Decentralized Crypto | *Blockchain, Ethers, Smart Contracts, React Native* — 2022 - 2023
- 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* — 2021 - 2022
- 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.

Blood Donation App | *React, Chakra-UI, Django REST Framework* — 2020 - 2021
- 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
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