

Rakha Kanz Kautsar

A frontend software engineer striving for impact, always looking for things to improve.
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Employment

Frontend Software Engineer (APM), TikTok - Singapore - 2022 - now

TikTok, part of ByteDance, is a globally popular short-form video platform.

- Reduce LCP from 2.65s to 1.88s by introducing service worker to APM platform
- Improve Core Web Vitals (LCP, CLS, TBT) of APM Platform. 93% pages has <2.5s LCP, <0.1 CLS, <0.1s TBT
- Improve build time from 10 min to 7 min and bundle size from 40MB to 30MB

Keyword: React, Typescript, NodeJS, Performance, Application Performance Management, Real User Monitoring

Software Engineer (App / React Native - Order & Performance), [Shopee](#) - Singapore - 2019-2022

Shopee is a leading and growing e-commerce company in Southeast Asia & Taiwan under Sea Limited (NYSE:SE)

- Reduce initial load time of Shopee app's shopping cart from 10s to 1s (-90%).
- Use and build various performance tooling to improve overall app performance and cart page specifically.
- Implement various UX improvements, business and promotion features in cart and checkout page.

Keyword: React, Redux, React Native, Performance, Shopping Cart, Flow, Typescript, Lerna, Monorepo

Software Engineer, Intern & Part Time, [Stogo](#) - Jakarta - 2017, 2018

Stogo was a B2B (and later B2C) supply chain company connecting suppliers to small underserved restaurants and shops in ID.

Keyword: E-commerce, Driver Management, React, Redux, SSR, AWS, Algolia, Google Analytics, Cloudinary, Django, S3, SQS

Software Engineer, Intern & Part Time, [Dekoruma](#) - Jakarta - 2016, 2017

Dekoruma is a Home & Living, Design & Build marketplace in ID.

Keyword: E-commerce, Home & Living, React, Redux, Node.js, MongoDB, Heroku, Algolia, React Native, React Native Web

Projects (more on github.com/rkkautsar)

Reprobench: Reproducible Benchmark for Everyone, Jan-Jun 2019 | [GitHub](#)

- Research the requirement, design and build a modular and extensible framework for reproducible benchmarking with master-worker cross-machine communication
- Additionally build a cross-platform resource monitoring tool based on research need ([GitHub](#))

Keyword: Distributed System, ZeroMQ, Research Tool, Benchmarking, Profiling, Python, HPC, Conda

Moving Library, Winter 2017 | [GitHub \(Mobile App\)](#) | [GitHub \(API Service\)](#) | [Expo](#)

- Developed a peer-to-peer book sharing platform that enables people and educational organizations to share and lend their book collection.
- Developed the API service with Node and the mobile app with Expo and React Native.

Keyword: React Native, Expo, Mobx, Stripe API, Facebook API, PostgreSQL, Node.js, Knex, Koa

Education

Universitas Indonesia · Depok, Indonesia · 2015 - August 2019

Bachelor's Degree in Computer Science. GPA: 3.80/4.00

Technische Universität Dresden · Dresden, Germany · Jan - Jun 2019

Research Intern in Computational Logic. Project: Benchmarking Tool for Reproducible Research [[GitHub](#) | [Thesis](#)]

Awards (more on [linkedin.com/in/rkkautsar](https://www.linkedin.com/in/rkkautsar))

- **2017 - Jakarta Winner**, *Singapore Airlines AppChallenge - Jakarta & Singapore - Hackathon*
A hackathon-style software development contest held by SIA across Singapore, Jakarta, and San Francisco.
- **2016 - Top 20 Contestant**, *ACM ICPC Regional Asia Jakarta - Jakarta - Programming Competition*
Asia Regional qualification for International Collegiate Programming Contest World Finals.
- **2017 - Silver Medalist**, *Software Development - Gemastik - Depok - Software Development Competition*
Nationwide Software Development contest held by Indonesia Ministry of IT & Research.