Gunawan Wijaya

Personal Information

Degree: Bachelor in Computer Science
Nationality: Indonesian
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Career Summary

9+ years of experience in Software Development and Engineering, from Travel & Booking Agent System, Internet of Things, API-centric apps. Focused on low CPU, low memory, & low latency web & mobile apps on slow internet networks to deliver good quality UI/UX to the user, to the latest complex system involving thousands of server instances.

Technical Expertise

Golang, JavaScript, Python, Rust, Redis, Java*, PostgreSQL, MySQL, MongoDB, Neo4J*, Cassandra, Clickhouse DB, Aliyun*, AWS, Azure, GCP, Kubernetes

* means little experience through exposure in workplace, not a favorite though

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Professional Experience

Brick, Jakarta, ID (onebrick.io)   **Jun 2022 – Dec 2022**

Engineering Manager
- Manage 5 cross functional vertical business unit (Payment, Experience, Data, Insights, BOIVA) and 2 additional team of Frontend and Quality Assurance
- Improving Agile practice & Sprint process to be more predictable
- Prepare the Q4 & Q1 OKRs to align with company's mission and vision
- Working closely with DevOps team to create the platform for dev team to be more productive, preparing Grafana stack (Loki, Tempo, & Mimir) that monitored in Grafana dashboard for operational purposes
- Build the BOIVA architecture from scratch that the encryption is enabled by default
- Initiate the OpenTelemetry, OpenID Connect, Federated Squad formation, weekly #engineering-class, and introducing FOReST architecture
- Build the engineering culture and DevSecOps mindset to all engineers

Koinworks, Jakarta, ID (koinworks.com)   Aug 2021 – Jan 2022

Engineering Manager – NEO Pod
- Manage 20+ peoples in cross functional team (Android, iOS, QA, FE, BE)
- Assisting stakeholders to create the next neo-bank experience to Koinworks users
- Successfully deliver Koinworks NEO that help securing series C funding
- Build CI/CD pipeline to smoothly deliver features & releases to end-users
- Enforcing strict PR review & constant pair programming with BE
- Enforcing strong encryption on all personal identifiable information
- Encourage knowledge sharing session to build an open source mindset
- Guides and listen to team members to help them to own the product
- Guides teams to build Testing Framework to reduce regression on features delivery
- Automation to be a priority task for every team member in order to maintain quality
- Delegate most of technical tasks and maintain a clear view of management side

Tokopedia, Jakarta, ID (tokopedia.com)   Nov 2018 – Jul 2021

Sr. Software Engineer – Fulfillment Tribe – Orchestra Squad   **[Mar 2020 – Jul 2021]**
- Owning delivery module (base module of Orchestra)
- TDD first on each iteration
- Leverage Github Action as development pipeline
- Major refactoring on early stage to avoid a larger tech-debt
- Reconciliation to partner as a report system
- Handover package report system
- Tracking status using state-machine-like mapper function
- Multi segmentation delivery tracking by miles (Pickup, First, Middle, Last)
- Real-time monitoring (outstanding, potential late, overSLA, withinSLA)

Sr. Software Engineer – Logistic Tribe – Rates Squad   **[Nov 2018 – Mar 2020]**
- Working closely w/ Golang, Redis, NSQ, PostgreSQL on GitHub
- Ensuring the system to work seamlessly with 3rd party logistics API
- Writing documentation on each 3rd party rate requests
- Ensuring that unit test running properly on every changes
- Code refactoring for clarity & better development experience

Pomona, Jakarta, ID (pomona.id)   Sep 2017 – Oct 2018

Software Engineer
- Greedy algorithm on request processing on all available resource in parallel
- Provide robust API using SOA based on pure Python + Node.JS + GraphQL
- Fuzzy Search FMCG prediction on receipt text in each retailer
- Unit test implementation on Machine Learning Python API
- Seamless experience from Development to Production via makefile
- PostgreSQL using Sequelize & MongoDB using Mongoose

Maven Lab Pte. Ltd., SG (mavenlab.com)   Jan 2016 – Apr 2017

Analyst Programmer

Vi8e Interactive Pte. Ltd., SG ([vi8e.com](vi8e.com))   Sep 2015 – Dec 2015

Front End Developer

PT. Omnia Media, Bali, ID   May 2014 – Jan 2015

Web Developer

PT. Agung Greenland Property, Bali, ID   Nov 2013 – May 2014

Web Developer

Education

BS in Computer Science, STTS (stts.edu)   Nov 2013

Final Project and Thesis   Mar 2013 – Sep 2013

- Developed a centralized home automation system using Python and PHP with data logging feature and remote control via web.
- Plan and design database, login flow, network, concurrent connection, and daemon service for the Internet of Things.
- Projects
    - Developed Raspberry Pi-based home automation system with centralized control (PHP, Python, MySQL, AJAX)

Dual Internship   Sep 2012 – Jan 2013

- Provide business and technical analysis for an easier hotel booking system with thousands of customers and over USD10K transactions per day.
- Convert email and text message booking system to new integration and reporting system for management purposes.
- Projects
    - Analyze, design, test, and implementation of the booking system for 2 of the best hotels in Kuta, Bali Padma Resort Bali and Discovery Kartika Plaza Hotel. Build integration with legacy email and text message booking system for customers and report for management (PHP, Bootstrap, MySQL, AJAX)