

Josep Marcello

— Software Engineer

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Working Experience

Software Engineer I (Full time)

Tiket.com | October 2022—now

- Tech stack: Java 8 (and RxJava), Java 11 (and Reactive Java), Maven, Spring, MongoDB, Kibana, Elasticsearch.
- Work with 3 other software engineers, 1 tech lead to improve and maintain Tiket.com's hotel demand post-purchase team services.
- Initiate tracing for errors and communicate my findings and also possible solutions with my lead and other engineers.
- Add validations to enable users to use currencies other than IDR when booking, rescheduling, and refunding hotel.
- Provide API to enable data hard-deletion.
- Create sequence diagrams to explain one of hotel demand post-purchase team's feature.
- Adjust current services to use new services from other team.
- Improve logging on hotel demand post-purchase's services.

Back end Engineer (Internship)

Tiket.com | June 2022—October 2022

- Tech stack: Java 8 (and RxJava), Java 11 (and Reactive Java), Maven, Spring, MongoDB, Kibana, Elasticsearch.
- Worked with 3 other software engineers, 1 tech lead to improve and maintain Tiket.com's hotel demand post-purchase team services.
- Initiated tracing for errors and communicate my findings and also possible solutions with my lead and other engineers.
- Worked with other software engineers on implementing newer version of internal microservices.
- Worked with another software engineer, engineering manager, and devops to create script to automate deleting unused data from Elasticsearch.
- Worked with quality assurance (QA) engineers to test and fix new features or improvements.
- Created a documentation to document available APIs for one of post-purchase microservice.

Junior Back end Engineer (Part time)

Kenangan.com | December 2021—June 2022

- Tech stack: Node.js, Fastify.js, MySQL, Sequelize.js
- Created APIs for Kenangan's app with another back-end engineer.
- Worked with 2 mobile app engineers to create API contracts and adjust existing APIs.
- Created a daemon to download videos from third-party content bucket to Kenangan's S3 bucket.
- Integrated a third party service to Kenangan's app.
- Redesigned, documented, and rewrote the database.

Laboratory Assistant (Part time)

ITB Distributed System Laboratory | July 2021—now

- Work with 8 other assistants to create tasks and projects for 4 courses with around 160 students each

Data Analyst (Internship)

CoLearn | September 2020—February 2021

- Optimized machine learning algorithm by evaluating over 10,000 pictures from machine learning prediction
- Helped optimize my team's workflow by creating a Python script to automatically download JSON data from an API and parse it into a CSV file

Software Engineer (Internship)

Wardaya College | July 2020—August 2020

- Tech stack: Python Flask, MySQL
- Developed a new e-learning platform with 3 other software engineers
- Administrated a Moodle-based LMS with 3 other software engineers

Skills

Programming languages

Frameworks

Development tools

Languages

TypeScript, Go, Java, Python, C, Rust, Kotlin, JavaScript, C++, C#, PHP

Express.js, React.js, Tailwindcss, Svelte.js, Vue.js, Spring Boot

SQL Databases, Git, Docker, Redis, Linux, GitHub & GitLab CI/CD, GNU Make

Indonesian (native), English (fluent)

Projects

[Mile Zero Project 2.0 Website](#)

A website to promote IEEE ITB Student Branch's competition and for participants to sign up and submit their work.
Tech stack: TypeScript, PostgreSQL, Prisma.js, Vue.js, Docker, Terraform.

[Dorayaki Store](#)

E-commerce app for a fictional company.

Worked with 2 other software engineers to create 4 services:

- customer-side,
- admin back-end,
- admin front-end, and
- a SOAP-based service (connector of customer and admin services)

Tech stack: Vanilla PHP 8, Java, React.js, Tailwindcss, Fastify.js, Prisma.js, TypeScript, PostgreSQL, Redis, Docker.

[Nisbi.id](#)

A Google Drive-like app created as one of Radya Labs' projects.

Worked with 1 other back-end engineer to create Nisbi.id's file-system-related features (create file, delete file, etc.).

Tech stack: Go, Fiber, Gorm, PostgreSQL.

[More projects](#)

Education

Bandung Institute of Technology—Bandung, Indonesia

Bachelor of Computer (Informatics Engineering)

GPA: 3.57/4.00

Notable finished Courses:

- Parallel and Distributed System
- Web-based Application Development
- Software Project
- Database Management
- Computer Networks
- Platform-based Application Development
- Algorithm Strategies
- Machine Learning

Organizational Experiences

Head of Technology, Issue, and Exploration (TIE) Department—HMIF ITB

May 2022–now

- Lead and managed 3 divisions under TIE Department.
- Worked with other divisions to provide internal HMIF services and software (Line Bot, Discord Bot, and link shortener).

Tech used: Go, JavaScript/TypeScript, Svelte.js, Python, Docker, Nginx

Head of Web Development Division—Parade Wisuda Juli 2021 ITB

May 2021–July 2021

- Lead 12 software engineers to create the website's design, front-end, and back-end.
- Setup CI/CD pipeline and deployment server.
- Tech stack: TypeScript, Express.js, Sequelize.js, React.js, SCSS, MariaDB, GitHub CI/CD, Docker

CTF Division Staff—Arkavidia 2021

September 2020–March 2021

- Best staff of the CTF Division.
- Created cybersecurity-related problems (mostly in forensics and reverse engineering field).

Achievements

- Finalist at Bina Nusantara Cyber Security Community (Binus CSC) National Cyber Week, Cyber Arena CTF Competition.
- Finalist at UGM JOINTS 2021 CTF Competition.
- Participant at TechnoScape 2021 Hackathon Competition.
- [NVIDIA DLI Certificate](#) – Getting Started with Deep Learning
Issued Dec 2021, credential ID: f3c6d44eee1549af92d803daa2551b2f