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 mantain 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.
- Reduce CPU usage on a service by refactoring and optimizing the use of Reactive Java.
- 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 mantain 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 assitants 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	TypeScript, Go, Java, Python, C, Rust, Kotlin, JavaScript, C++, C#, PHP
Frameworks	Express.js, React.js, Tailwindcss, Svelte.js, Vue.js, Spring Boot
Development tools	SQL Databases, Git, Docker, Redis, Linux, GitHub & GitLab CI/CD, GNU Make
Languages	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.
- NVDIA DLI Certificate – Getting Started with Deep Learning
  Issued Dec 2021, credential ID: f3c6d44eee1549af92d803daa2551b2f