

# Josep Marcello

— Software Engineer

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## Working Experience

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### Back end Engineer (Internship)

**Tiket.com** | June 2022—now

- Tech stack: Java 8 (and RxJava), Java 11 (and Reactive Java), Maven, Spring, MongoDB, Kibana, Elasticsearch
- Work with 3 other senior software engineers, 1 tech lead to improve and maintain Tiket.com's hotel post-purchase microservices.
- Worked with a software engineer, engineering manager, and devops to delete unused data from Elasticsearch.
- 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

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## Skills

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### 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)

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## Projects

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### [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](#)

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## Education

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**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

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## Organizational Experiences

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**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).

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## Achievements

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- 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