

Ryo Wijaya

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Education

AUG 2020 - PRESENT

National University of Singapore (NUS)/Bachelor of Computing in Information Systems

Specialization: Financial Technology, Graduation: June 2024 Honors (Distinction)

AUG 2016 - MAY 2018

Heidelberg International School (Germany)/International Baccalaureate (IB) Diploma Programme

Work Experience

JAN 2023 - JUN 2023

SP Group/Product Software Engineer Intern (EnergyTech Branch)

Stack: FastAPI, Locust, Next.js, WebSocket (Open Charge Point Protocol), Azure (Cosmos DB, Functions, VMs)

- Designed and developed an OCPP 1.6 and OCPP 2.0.1 compliant electric vehicle (EV) charger simulator WebSocket server to be used for end-to-end automation testing and load testing.
- Initiated load testing efforts on the company's EV charging network servers for up to 2000 simulated chargers on various test cases, helping to identify scalability needs.
- Designed and implemented an internal web platform with Next.js to manage simulated chargers, charger OCPP configurations, facilitate OCPP message exchange with a central server, and view message logs.

MAY 2022 - AUG 2022

Reluvate Technologies/Full Stack Software Engineer Intern

Stack: Node.js, Python, React.js, PostgreSQL, Google Cloud Platform (Firebase, Firestore, CloudSQL, Functions)

- Developed a hiring web platform automating 90% of Reluvate's recruitment and document exchange, integrating technical assessments and other application portal platforms.
- Developed the backend for an accounting platform to automate customer, project, and payment management.
- Designed and developed the backend for an intranet web platform for an international NGO client to manage cost-centers, accounts, projects, and deliver report generation and analytical charts.

Software Projects

Ranky (React Native, SQLite): An android mobile application to help enthusiasts efficiently manage and rank their entertainment queue on the go. (WIP)

PetHub (Express.js, Next.js, PostgreSQL, Prisma, AWS): A one-stop web application that caters to the needs of both pet owners and pet service providers, coupled with a management interface for administrators. ([GitHub](#))

Optimal Travel Plan (Jakarta EE, JSF, JPA, Ionic, MySQL): A web and hybrid mobile application that provides travel itinerary generation functions and service hosting capabilities to businesses. ([GitHub](#))

Skills and Others

Languages: Python, Java, JavaScript/TypeScript, HTML/XHTML, Solidity

Frameworks, Platforms, Libraries: FastAPI, Locust, Jakarta Enterprise Edition, Jakarta Server Faces, Express.js, Next.js/React, Angular, Ionic, React Native, WebSocket (Open Charge Point Protocol), Prisma, JPA

Cloud: Azure (VMs, Cosmos DB, Functions), Google Cloud Platform (Firebase, Firestore, Functions, CloudSQL)

Others: PostgreSQL, MySQL, SQLite, NoSQL, Git, Docker, Test Driven Development, Agile Scrum

Misc: Languages spoken (English, Conversational German, Basic Mandarin), Interests (Piano, Electric Guitar)

Certifications: [Financial Technology Specialisation \(Distinction\)](#), [ICT Solutioning \(Merit\)](#), [IS Technology \(Distinction\)](#), [Azure Data Fundamentals](#), [Azure Fundamentals](#), [Intro to Linux](#), [Intro to Cloud Infra Technologies](#), [Computer Hardware and Operation Systems](#)