Yehezkiel Wiradhika

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Summary

A **Fullstack Software Engineer** focused on **Backend** with 4+ years of experience as engineer, intern and volunteer • A **Cyber Security** and **DevOps Enthusiast** who sometimes build Machine Learning models to make Backend and Cyber Security systems smarter • A **Computer Science / Informatics Engineering Fresh Graduate** at **Institut Teknologi Sepuluh Nopember (ITS), Surabaya**.

To learn more, visit yehezkiel-wiradhika.vercel.app 🔗.

Education

Institut Teknologi Sepuluh Nopember   *July 2020 – Sept 2025*
BS in Computer Science / Informatics Engineering

- **Coursework:** Cloud Computing (A), Network Security (A), Cryptography (A), Database Systems (A), Algorithms (A), Data Structures (A), Network Programming (A), Machine Learning (AB), Framework Based Programming (AB), Software/Application Security (AB), Requirement Engineering (AB)
- **Thesis:** Machine Learning, Frequent Pattern Mining and Statistical based Web Honeypot Attack Data Analysis: SNARE and Tanner
- **Notable Awards:** 1st Place FTIRS Business Competition (FBC) 2024 (National), Won 12M funding from ITS Youth Technopreneurship (IYT), 4th Place Heroes Cyber Security (HCS) ITS CTF 2023

Ruang Guru Go Backend Engineering Bootcamp   *August 2022 – Dec 2022*
Bootcamp / Apprenticeship in Backend Engineering

- GPA: 3.85/4.0 (view certificate 🔗)
- **Coursework:** Backend Engineering with Data Structures and Algorithms, Unit Testing (GinkGo), JWT, OAuth2, Concurrency, RESTful API, gRPC, MVC, Clean (Hexagonal) Architecture, ERM, Postgres, GORM, also Gin to DevOps such as Redis, Docker, Kubernetes, RabbitMQ, Grafana, and more.

Experience

Head of IT; Fullstack, DevOps and Security Engineer   *Surabaya, East Java*
Volvinco   *Apr 2024 – present*

- Built the entire IT infrastructure from scratch from Backend to Frontend, Cloud, DevOps with Server Security Hardening and Security best practices.
- IT Lead on three Fullstack Web Apps clients' projects (Muncak Kuy [e-commerce app built with Nodejs and Laravel], Epipla [interior e-commerce platform] and Kos KaKa [boarding house management system built with Go/Gin microservices])

Penetration Tester   *Surabaya, East Java*
Direktorat Pengembangan Teknologi dan Sistem Informasi (DPTSI) ITS   *Sept 2024 – Jan 2025*

- Security Tested 20 Web Applications. Found hundreds of small-medium and several high-critical level vulnerabilities such as Database Leak (SQLi) and Gained Admin Access (Broken Access Control).
- Utilized both automated (with tools like NMap, SQLMap, Nessus, Nikto, Dirsearch and more) and manual OWASP Pentest Methods (with tools like Burpsuite and OWASP Zap [for reconnaissance and spidering]) on both Network and Application sides.

Project Lead; Fullstack Engineer   *Bekasi, West Java*
PT. Kayaba Indonesia   *Aug 2023 – Dec 2023*

- Digitized PT. KYB's whole training programs by creating from scratch KYB's Training Center Administration Fullstack Web App with LEMP stack (PHP, MySQL, AJAX, JQuery); directly and continously communicating with the head of IT department, head of recruitment and direct mentor(s).

- Designed (ERM, Flowchart, requirement gathering & analysis, and more) based on SDLC (Agile) method
- Integrated KYB's training database which is formerly in Excel format (saved locally) and convert it to SQL (integrated on KYB's internal network)

Backend Lead; Backend Developer *Surabaya, East Java*
StudentsxCEOs League 2022 *Sept 2024 – Jan 2025*

- Fully Implemented Backend API with Nodejs, database with MongoDB and Mongoose
- Fully Implemented the API requests using Axios on the Frontend
- Fully implemented events' registrations, authentication (JWT), RBAC authorization (admin, user) complete with validations and error handlings using React and Nodejs

Frontend Developer *Surabaya, East Java*
Schematics ITS 2021 *Sept 2024 – Jan 2025*

- Implemented NPC Competition Registration dan REEVA Ticket Purchase
- Implemented whole NLC dan NPC landing pages, sponsor implementations and more
- Worked closely with three mentors and a colleague.

To view more experience, visit linkedin.com/in/yehezkiel-wiradhika/ ⬈.

Projects

Kos KaKa Fullstack App: Boarding House based in Malang *View project* ⬈

- Lead developer on the app development side from Front to Back. On the front, utilized Nextjs15, Typescript, Shadcn, SWR, Zap validation and more.
- Implemented Hexagonal (Clean) architecture with dependency injections and context with timeouts, Implemented the database using Postgres and caching with Redis.
- Utilized Docker and Kubernetes as Microservice architecture. Implemented the VPS's Infra side with Nginx, PM2 UFW, and more.
- Implemented store REST API, JWT, OAuth2, and chat including group chat functionality with socket programming, payment gateway with Xendit, and more.

Muncak Kuy Fullstack App: Mountain Hiking E-Commerce Startup *View project* ⬈

- Lead developer on the e-commerce app development side from Front to Back.
- Made Vendor and admin privileges using Laravel with Spatie.
- Implemented the user privilege using Nodejs, Typescript and Expressjs.
- Won 12M funding from ITS Youth Technopreneurship (IYT) 2024

Machine Learning, Frequent Pattern Mining and Statistical based Web *View project* ⬈
Honeypot Attack Data Analysis

- Fixed the outdated Python and Docker source code Generated dataset to train the Machine Learning model using security scanners which simulates real attacker behaviors with OWASP Zap, Nikto and Nuclei.
- Getting real attack data to be used for Machine Learning model training, validation and testing by setting up and hosting the honeypot on Ubuntu VPS.
- Made the statistical, frequent pattern and machine learning based analysis program on Web Honeypot's attack data with Python then visualizing it with Metabase to gain detailed attack insights.

To view more projects, visit yehezkiel-wiradhika.vercel.app/projects ⬈.

Tech Stacks

Languages: Go, Python, Node.js, Typescript, PHP, Bash, Java

Frameworks: Gin, Laravel, Express.js, Flask, Nextjs15

Databases: Postgres, MySQL, MongoDB, Firebase, Redis

DevOps/Infra: Docker, Kubernetes, Github Actions, Nginx, RabbitMQ

Cyber Security: Burp Suite, Metasploit, Wazuh, Snort, Cowrie, VirusTotal, AnyRun