Yehezkiel Wiradhika

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Summary

A **Fullstack Software Engineer** with Focus on **Backend** with 4+ years of experience as engineer, intern and volunteer • A **Cyber Security, DevOps and Machine Learning Enthusiast** with experience as Penetration Tester at DPTSI ITS, DevSecOps at Volvinco and Machine Learning Thesis • 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

- GPA: 3.4/4.0
- **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

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

- GPA: 3.85/4.0 (view certificate ↗)
- **Coursework:** Backend with Data Structures and Algorithms, Unit Testing (GinkGo), JWT, OAuth2, Concurrency, RESTful API, gRPC (microservice), 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*

- Co-founder; built the entire IT infrastructure from scratch from Backend to Frontend, Cloud, DevOps with server security hardening and security best practices.
- Built three Fullstack Web Apps with one of them, Epipla got first place in national business competition, the other one (Muncak-kuy) got Rp. 10M funding.
- Increased Kos KaKa (A boarding house business based in Malang)'s management business efficiency by % and visibility by % by building ERP Web App implementation.

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

- Designed (ERM, Flowchart, requirement gathering & analysis, and more) based on SDLC (Agile) method and implemented Training Center Administration ERP Fullstack Web App with LEMP stack by directly and continously communicating with the head of IT department, head of recruitment and direct mentor(s).
- Increased PT. Kayaba's training efficiency by %.

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.

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 the registrations, authentication, RBAC authorization complete with validation and errors using React and Nodejs

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

- Implemented 3D Virtual Tour ITS Campus, NLC dan NPC landing pages also Sponsors implementation
- Implemented NPC Competition Registration dan REEVA Ticket Purchase
- Other minor implementations, refactors and bug fixing

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

Projects

Machine Learning, Frequent Pattern Mining and Statistical based Web Honeypot Attack Data Analysis *github.com/name/repo* ↗

- Dataset to train the model is first generated using
- Generated real attack data by hosting the honeypot on VPS also testing the attacks
- Made analysis on Web Honeypot's attack data, simulating the attacks using security scanners, using real attack datas by VPS setup and visualizing it with Metabase by clustering the attacks, frequent patterns and statistically to gain detailed attack insights.
- Tools Used: Python, Docker, Metabase, SNARE & Tanner (Web Honeypot)

Clean (Hexagonal) Architecture based eCommerce Microservices *github.com/name/repo* ↗

- Developed a desktop calendar with globally shared and synchronized calendars, allowing users to schedule meetings with other users
- Tools Used: C#, .NET, SQL, XML

Kos KaKa Fullstack App: Boarding House based in Malang *2002*

- Built a UNIX-style OS with a scheduler, file system, text editor, and calculator
- Tools Used: Go/Gin, Docker, Postgres, GORM, Redis, RabbitMQ, Nextjs15, Tailwindcss

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

Technologies

Languages: Go, Python, Nodejs/Typescript, PHP, Java

Backend Frameworks: Gin, Laravel, Expressjs, Flask

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

DB/DBMS/Caching: SQL/Postgres/MySQL, MongoDB/Mongoose, Firebase, Redis

Frontend: Next15/Reactjs, Tailwindcss, Shadcn

Offensive Sec: Burpsuite, OWASP Zap, NMap, Nikto, Nessus, SQLMap, Metasploit

Blue Team: Wazuh (SIEM), Snort (IDS/IPS), Cowrie/Dionaea/SNARE & Tanner, VirusTotal, AnyRun/Triage