

# Yehezkiel W

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## Summary

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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](https://yehezkiel-wiradhika.vercel.app) [🔗](#).

## Education

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### Institut Teknologi Sepuluh Nopember

July 2020 – Sept 2025

*BS in Computer Science / Informatics Engineering*

- GPA: 3.35/4.0 ([a link to somewhere](#) [🔗](#))
- **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

*Apprenticeship / Bootcamp in Backend Engineering*

- GPA: 3.85/4.0 ([a link to somewhere](#) [🔗](#))
- **Coursework:** Backend with Data Structures and Algorithms, Unit Testing (GinkGo), JWT, OAuth2, Concurrency, RESTful API, MVC, gRPC (microservice), Clean Archi (Hexa), ERM, Postgres, GORM, also Gin to DevOps such as Redis, Docker, Kubernetes, RabbitMQ, Grafana, and more.

## Experience

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### Fullstack, DevOps and Security Engineer

Surabaya, East Java

*Volvinco*

June 2005 – Aug 2007

- Reduced time to render user buddy lists by 75% by implementing a prediction algorithm
- Integrated iChat with Spotlight Search by creating a tool to extract metadata from saved chat transcripts and provide metadata to a system-wide search database
- Redesigned chat file format and implemented backward compatibility for search

### Fullstack Engineer

Redmond, WA

*PT. Kayaba Indonesia*

June 2003 – Aug 2003

- Designed a UI for the VS open file switcher (Ctrl-Tab) and extended it to tool windows
- Created a service to provide gradient across VS and VS add-ins, optimizing its performance via caching
- Built an app to compute the similarity of all methods in a codebase, reducing the time from  $\mathcal{O}(n^2)$  to  $\mathcal{O}(n \log n)$
- Created a test case generation tool that creates random XML docs from XML Schema
- Automated the extraction and processing of large datasets from legacy systems using SQL and Perl scripts

## Publications

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### 3D Finite Element Analysis of No-Insulation Coils

Jan 2004

Frodo Baggins, **Yehezkiel Wiradhika**, Samwise Gamgee

[10.1109/TASC.2023.3340648](https://doi.org/10.1109/TASC.2023.3340648) [🔗](#)

## Projects

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### Multi-User Drawing Tool

[github.com/name/repo](https://github.com/name/repo) 

- Developed an electronic classroom where multiple users can simultaneously view and draw on a "chalkboard" with each person's edits synchronized
- Tools Used: C++, MFC

### Synchronized Desktop Calendar

[github.com/name/repo](https://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

### Custom Operating System

2002

- Built a UNIX-style OS with a scheduler, file system, text editor, and calculator
- Tools Used: C

## Technologies

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

**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

**Red Team:** Burpsuite, OWASP Zap, NMap, Nikto, Nessus, SQLMap, Metasploit

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