

Yehezkiel W

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Summary

A **Fullstack Software Engineer** with Focus on **Backend** with 4+ years of experience as developer, 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: 3.35/4.0 ([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 / Cloud Computing such as Redis, Docker, Kubernetes, RabbitMQ, Grafana, and more.

Experience

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

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

Multi-User Drawing Tool

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 

- 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

Languages: C++, C, Java, Objective-C, C#, SQL, JavaScript

Technologies: .NET, Microsoft SQL Server, XCode, Interface Builder