

Muhammad Vito Secona

vitosecona@gmail.com — [linkedin.com/in/secona](https://www.linkedin.com/in/secona) — github.com/secona — secona.dev

SKILLS

Skills: Rust, Go, C/C++, TypeScript, React

Languages: Bahasa Indonesia (native), English (fluent)

Interests: Systems Programming, Cyber Security, Web Development

PROJECTS

Belalang Programming Language | <https://github.com/secona/belalang>

Mar. 2024 – Present

- A custom programming language designed that features a compiler and virtual machine written in Rust.
- Developed a CLI tool to compile and execute bytecode, with a structured language pipeline including a lexer, parser, and compiler.
- Implemented a stack-based virtual machine for efficient execution.

KFLAP | <https://github.com/secona/kflap>

Mar. 2025 – Present

- Developed a custom-built clone of JFLAP using C++ to simulate formal language constructs and computational models.

VOLUNTEERING

Teaching Assistant

Jun. 2024 – Nov. 2024

Fasilkom UI

- Assisted in Programming Basics 2 using Java course, helping students understand OOP concepts and problem solving skills.
- Assisted in Introduction to Digital Systems course, helping students understand logic circuits and digital design.

Web Developer Lead

Jun. 2024 – Nov. 2024

Open House Fasilkom UI 2024

- Led the development of a web platform that handled 2000+ users with 1000+ online tickets registrations.
- Developed participant and ambassador registration systems with an efficient workflow.
- Optimized service to handle 70+ concurrent users, ensuring user experience.

Backend Developer

Jun. 2024 – Jan. 2025

Green Welfare Indonesia

- Developed the backend infrastructure using Go, Gin, and Gorm.

Software Engineer

Jun. 2024 – Jan. 2025

BEM Fasilkom UI

- Mentored 6 students at SBF (Sekolah BEM Fasilkom) in software engineering.
- Guided students in real world software engineering challenges, including version control and collaboration workflows.

EDUCATION

Universitas Indonesia

Aug. 2023 – Present

Undergraduate in Computer Science

Depok, Indonesia

ACHIEVEMENTS

Best Local Innovative Project

2024

2024 NASA International Space Apps Challenge

Global Nominee

2024

2024 NASA International Space Apps Challenge