Vito Secona

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PROJECTS

Belalang Programming Language | https://github.com/secona/belalang
- 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
- Developed a custom-built clone of JFLAP using C++ to simulate formal language constructs and computational models.

EXPERIENCES

Teaching Assistant | Fakultas Ilmu Komputer, Universitas Indonesia   Jun. 2024 — Jun. 2025
- 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 | Open House Fasilkom UI 2024   Jun. 2024 — Nov. 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 | Green Welfare Indonesia   Jun. 2024 — Jan. 2025
- Developed the back-end infrastructure using Go, Gin, and Gorm.

EDUCATION

Undergraduate Computer Science | *Universitas Indonesia*   Aug. 2023 — Present
Current GPA: 3.96

ACHIEVEMENTS

Best Local Innovative Project | *2024 NASA International Space Apps Challenge*   2024

Global Nominee | *2024 NASA International Space Apps Challenge*   2024