

GIOVAN CHRISTOFFEL SIHOMBING

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Highly motivated Computer Engineering student with deep interests in backend development, machine learning, and CPU architecture. Combines strong analytical and problem-solving capabilities with proven leadership and teamwork skills to collaboratively tackle complex challenges and deliver innovative technical solutions.

Work Experiences

Digilab Laboratorium DTE - Universitas Indonesia

Aug 2023 - Present

Laboratory Assistant

- Established server environment ensuring efficient lab operations
- Deployed LMS streamlining student learning processes
- Integrated auto-checker system, improving grading efficiency

Universitas Indonesia

Jul 2024 - Dec 2024

Public Relation Intern (Web Developer)

- Maintained UI WordPress site with 5.5M+ accesses during internship
- Contributed to the success of major UI events, including the 2024 Graduation Event and UI International Education Expo 2024, by ensuring timely website updates for event schedules and related press releases
- Responsibility for uploading and managing press releases from the UI publication team on ui.ac.id, ensuring consistent and up-to-date information dissemination to the university's broad audience

Education Level

Universitas Indonesia - Depok, Indonesia

Aug 2022 - Aug 2026 (Expected)

Bachelor of Computer Engineering, 3.61/4.00

- Represented Computer Engineering Class of 2022, demonstrating leadership and peer-elected trust
- Recipient of highly competitive AEON 1% Club Scholarship, recognizing academic excellence and leadership potential
- Proven leadership as Vice President of EXERCISE FTUI, coupled with technical expertise in Digital Lab & Web Development internships

Organisational Experience

EXERCISE FTUI 2024 - FT Universitas Indonesia

Jan 2024 - Jan 2025

Vice President

- Oversaw strategic planning and operations, expanding member engagement through 5 workshops & an internship program
- Led backend development, ensuring a robust and scalable e-voting system that handled >2,700 voters and >40,000 accesses, guaranteeing election integrity
- Streamlined workflows & fostered innovation, enhancing organizational efficiency & member skills via practical programs

EXERCISE FTUI 2023 - FT Universitas Indonesia

Jan 2023 - Jan 2024

Staff of Project Software

- Developed user-centric UI/UX for IoT apps monitoring elderly well-being
- Engineered Node.js middleware library for SQL injection, XSS, & IP control
- Backend development digitizing KarsaBuana Lab project flows (Express.js, MongoDB)

Google Developer Student Club Universitas Indonesia - Universitas Indonesia

Oct 2022 - Sep 2023

Member

- Participated in a Google Developer Student Club bootcamp at Universitas Indonesia, gaining hands-on experience and skills in Go programming for backend development

Skills, Achievements & Other Experience

- Projects - EcoShopper [Fullstack Engineer]** 🔄 (2024): Web app to recommend eco-friendly product alternatives, promoting sustainable consumption and ethical buying choices
- Projects - eVoting Pemira [Led Backend Engineer]** (2024): Secure & efficient e-voting system for university student elections, ensuring transparent online voting
- Projects - RISCv CPU 16bit [CPU Designer & Modeler]** 🔄 (2024): FPGA-based 16-bit RISCv CPU design & simulation, creating a behavioral model CPU for digital systems learning
- Projects - KarsaBuana Lab [Backend Engineer]** 🔄 (2023): Backend infrastructure for research lab platform, enabling robust data handling & real-time collaboration for researchers

- **Projects - 1xBid [Fullstack Engineer]** 🏆 (2024): Developed backend architecture and contributed to frontend for a real-time online bidding platform, implementing features like authentication, real-time data processing, and secure transactions
- **Projects - JBus [Mobile Engineer]** 🏆 (2023): Android app simulating bus ordering, as a final project for Object-Oriented Programming (OOP)
- **Projects - MightyShield [Backend Engineer]** 🏆 (2023): Developed a comprehensive JavaScript library providing essential cybersecurity modules to enhance web and mobile application security
- **Projects - Image-ColorScaler [VHDL/FPGA Engineer]** 🏆 (2023): Developed an FPGA-based system using VHDL to transform images into grayscale and other color scales (green, red, blue) for image processing
- **Projects - BluetoothApps [Mobile Engineer]** 🏆 (2023): Designed and implemented a user-friendly UI for a smartwatch application monitoring elderly health records
- **Language:** Indonesia (Native), English (Professional), Japanese (Daily Conversation)
- **Modules Taken** 🏆 (2024): CCNA: Enterprise Networking, Security, and Automation
- **Modules Taken** 🏆 (2024): Ethical Hacker
- **Scholarship Awardee** 🏆 (2024): AEON 1% Club Scholarship Awardee AY 2024-2025
- **Programming Languages:** JavaScript, Python, Kotlin, C, Java, Assembly, VHDL, SQL (PostgreSQL & MySQL), HTML, CSS
- **Frameworks & Technologies:** Node.js, Tailwind CSS, Express.js, Android SDK, React.js, Spring Boot, API
- **DevOps & Cloud Technologies:** Docker, CI/CD
- **Other Tools:** Microsoft Excel, Google Spreadsheet, Wordpress, Figma