

Albany Siswanto

Bandung, Indonesia | +62 821-2362-9926 | albanysiswanto@yahoo.com | [LinkedIn](#) | [Github](#)

SUMMARY

Backend Developer experienced in building web applications, mobile, and AI-based solutions, including CLI tools that allow non-technical users to run SQL queries efficiently. Proficient in PostgreSQL, MySQL, Rust, Python, and TypeScript, with experience developing APIs and microservices architectures using Docker and Git. AI research background, including the development of LLM for fracture detection and pneumonia diagnosis, with significant impact on diagnosis efficiency. Actively exploring Web3 technologies for decentralized backend development, with a focus on innovation and scalability.

EDUCATION

Bina Nusantara University

Bachelor's Degree in Computer Science

2027

SMK BPI Bandung

Vocational High School in Software Engineering

2023

WORK EXPERIENCE

PT Swamedia Informatika

Full Stack Developer

Bandung

Jun 2022 - Sep 2022

- I had the valuable opportunity to intern at a technology company where I was tasked with developing a web-based online exam application using the PHP programming language with the CodeIgniter 3 framework. This experience allowed me to deepen my web development skills and work in a professional environment that supported my career growth in the technology field.

Bina Nusantara Computer Club

Backend Developer

Bandung

Sep 2023 - Aug 2024

- Contributed to web development projects as part of the R&D division, focusing on building full-stack applications using Next.js and Express.js. Collaborated effectively in a team setting, following agile principles and version control best practices. Gained valuable experience in backend API development, frontend integration, and technical problem-solving in group environments.

SKILLS & INTEREST

Skills: Rust, Python, Typescript, Actix, Docker, Git, Svelte.js, PostgreSQL, MySQL

Interest: Backend Developer | Web2 & Web3 Enthusiast

PROJECT EXPERIENCE

CLI Assistant Tools

Jul 2025

- **Bunny SQL Assistant** is a command-line interface (CLI) tool that transforms natural language commands (in Indonesian or English) into valid SQL queries and executes them directly on your local database. This project is designed to simplify database interactions using everyday language.

Pneumonia Detection System Using Deep Learning

Sep 2024 – Dec 2024

- Developed a CNN-based model to detect pneumonia from X-ray images, utilizing a test dataset of 64 images to achieve reliable generalization.
- Built and deployed a web-based interface using backend technologies, allowing real-time image uploads and prediction outputs with confidence scores.
- Preprocessed data with resizing and normalization techniques, enhancing model training efficiency.

Bone Fracture Detection with YOLOv11 Nano & YOLOv12 Nano

Jan 2025 – Jun 2025

- Designed and trained a YOLOv11 Nano model for automated bone fracture detection, achieving a precision of 0.8205 and recall of 0.7337 on X-ray datasets from Kaggle and Roboflow.
- Developed and evaluated a YOLOv12 Nano model, incorporating attention-based architecture to enhance object detection accuracy, achieving improved performance on complex fracture types like spiral and intra-articular fractures.
- Compared performance metrics between YOLOv11 Nano and YOLOv12 Nano, refining hyperparameter configurations to balance precision, recall, and computational efficiency.

CERTIFICATIONS AND TRAINING

Code Generation and Optimization Using IBM Granite

2025

IBM - [Credential URL](#)

Cloud Practitioner Essentials

2023

Dicoding - [Credential URL](#)

IC3 Digital Literacy Certification GS6 Level 1

2022

Certiport - A Pearson VUE Business - [Credential URL](#)