

BUDI AGUNG SANTOSO

Ciledug, Tangerang, Indonesia | +62 895 6185 84075 | budiagungsantoso572@gmail.com | [linkedin.com/in/budi-agung-santoso-61294b145](https://www.linkedin.com/in/budi-agung-santoso-61294b145)

ABOUT ME

Analytical and highly driven Senior Software Engineer with over 5 years of professional experience specializing in robust backend architectures, advanced algorithms, and data structures. Expert at debugging complex software issues, feature implementation, and codebase refactoring across distributed systems. Proficient in Python, Java, and TypeScript, with a solid foundational grasp of C++ and Rust. Proven track record of designing reproducible environments and optimizing system performance for high-load platforms, executing with a high level of autonomy in collaborative remote settings.

CORE TECHNOLOGIES & SKILLS

Core Languages:	Python (Python3), Java, TypeScript, JavaScript, SQL, Basics C++, Rust (Familiar)
Engineering Focus:	Algorithms & Data Structures, Bug Fixing & Debugging, Feature Implementation, Codebase Refactoring, Performance Optimization & Tuning
Databases & Storage:	PostgreSQL, MySQL, SQL Server, Oracle, AWS S3
Methodologies:	Deterministic Verification, Environment Design, Asynchronous Communication, Clean Code Best Practices, Rigorous Code Reviews

WORK EXPERIENCE

NTT Ltd. (Jakarta, Indonesia) March 2023 – Present

Senior Software / Backend Developer

- Designed, refactored, and maintained complex relational database structures across massive data systems using PostgreSQL and MySQL.
- Executed critical feature implementation and codebase refactoring using Python, improving data flow efficiency and modularity.
- Diagnosed and engineered bug fixing strategies for high-load application ecosystems, reducing system exceptions significantly.
- Conducted strict performance optimization by building asynchronous task scheduling and job queue infrastructures to eliminate data bottlenecks.
- Collaborated in remote settings, provided thorough code reviews, and championed software development best practices within the team.

Bank Central Asia (Jakarta, Indonesia) September 2022 – March 2023

QA Tester / Software Engineer

- Led debugging and diagnostic verification flows on critical transaction software infrastructure to discover edge cases and build golden reference solutions.
- Supervised software developers in resolving bugs, optimizing application behavior, and ensuring strict deterministic test compliance.

PT. Wells Management Smart (Pariaman, Indonesia) March 2022 – September 2022

Back End Programmer

- Took full responsibility for the architectural design, security enhancement, and rapid feature implementation of on-demand transportation backend tools.
- Optimized RESTful API endpoints for high performance, utilizing data structures efficiently to reduce query latencies.

PT. Wellwin Nusantara (Padang, Indonesia)

December 2019 – January 2022

Web Programmer

- Owned the end-to-end code deployment, server scalability orchestration, and overall maintenance of high-availability enterprise web spaces.
- Refactored legacy web tools into modern architectures to handle immense user surges smoothly throughout the remote work transition.

PROJECTS & INTERSHIPS

LPTIK Universitas Andalas (Padang, Indonesia)

September 2020

Server & IoT Systems Engineer (Internship)

- Designed reproducible environment setups and deployment parameters within the university's Linux server framework.
- Utilized Python to script data collection layers and maintain deterministic data tracking pipelines for laboratory hardware.

EDUCATION & LEADERSHIP

Universitas Andalas

2017 – 2022

Bachelor of Electrical Engineering (S.T.) | GPA: 3.70 / 4.00

- Highly proficient in core engineering algorithms, mathematical models, and structured data analysis frameworks.
- Awarded full national funding in the 2021 National Student Creativity Week for technology innovation.

UKM Neo Telemetry

2019 – 2021

President / Engineering Track Lead

- Directed a technical IT student unit, overseeing cross-functional training tracks, managing code repositories, and establishing structured code review behaviors among developers.