

BUDI AGUNG SANTOSO

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ABOUT ME

Passionate and versatile Software Engineer with over 5 years of experience building scalable applications, managing complex databases, and handling data transformation/ETL pipelines. Deeply obsessed with coding, problem-solving, and optimizing systems for performance. Proficient in **Python, JavaScript, and PostgreSQL**, with hands-on experience in Linux environments and a strong track record of designing high-load systems, RESTful APIs, and secure backend architectures. A fast-learning generalist who thrives on overcoming difficult technical challenges.

CORE TECHNOLOGIES & SKILLS

Languages:	Python, JavaScript, PHP (Laravel), SQL, TypeScript (Familiar)
Databases & Storage:	PostgreSQL, MySQL, SQL Server, Oracle, AWS S3
Infrastructure & Tools:	Linux, Git, RESTful APIs, Systems Integration
Specialties:	Backend Development, Data Transformation (ETL), Database Scaling & Optimization, Task Scheduling/Queues, Automated Systems

WORK EXPERIENCE

NTT Ltd. (Jakarta, Indonesia)

March 2023 – Present

Fullstack / Backend Developer

- Designed and optimized relational database structures across massive academic, financial, and internal data systems using **PostgreSQL**, SQL Server, and MySQL.
- Leveraged **Python** and stored procedures to build robust data synchronization features and automated ETL processes across distributed environments.
- Implemented asynchronous job queues and task scheduling to handle high-load backend processes and mass-scale data processing smoothly.
- Developed, integrated, and maintained secure, high-performance RESTful APIs for complex authentication and third-party financial services (e.g., Midtrans, Xendit).
- Crafted responsive, dynamic web applications using JavaScript and modern backend architectures to deliver clean, maintainable codebases.

Bank Central Asia (Jakarta, Indonesia)

September 2022 – March 2023

QA Tester / Engineer

- Conducted rigorous diagnostic testing and debugging on critical ATM software infrastructure to ensure zero-bug deployments.
- Analyzed complex test logs and predicted system anomalies to safeguard transactional application performance.
- Supervised development teams throughout the application lifecycle to enforce top-tier code quality and security standards.

PT. Wells Management Smart (Pariaman, Indonesia)

March 2022 – September 2022

Back End Programmer

- Engineered the core backend architecture and RESTful APIs for high-traffic on-demand transportation and e-commerce platforms.
- Took full ownership of creating, upgrading, and maintaining payment gateway integrations and digital wallet security frameworks.

Web Programmer

- Owned the end-to-end development and deployment of the company's enterprise web platforms.
- Architected an innovative, high-availability online learning system that successfully maintained business operations and handled surging user traffic during the pandemic.

INTERNSHIP & PROJECTS

LPTIK Universitas Andalas (Padang, Indonesia)

September 2020

Server & IoT Engineer (Internship)

- Deployed, configured, and managed server instances within the **Linux** network environment of the university.
- Utilized **Python** to design, build, and maintain data-monitoring backend systems for laboratory environment tracking.
- Prototyped automated hardware automation scripts, handling end-to-end data communication between hardware and servers.

EDUCATION

Universitas Andalas

2017 – 2022

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

- **Key Achievements:** Awarded full national funding in the 2021 National Student Creativity Week for technology innovation.

ORGANIZATIONAL EXPERIENCE

UKM Neo Telemetry (Padang, Indonesia)

2019 – 2021

President / Leader

- Led a prominent university-level IT organization, coordinating technical bootcamps, managing engineering teams, and establishing accountability and operational frameworks for members.