# Dimas Indra Setiawan

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## SOFTWARE ENGINEER

I am a Backend Developer with hands-on experience in building and maintaining scalable web applications and backend systems. Skilled in leveraging frameworks, databases, and cloud services, I focus on delivering efficient and reliable solutions that support business growth.

My expertise includes database optimization, RESTful API development, cloud infrastructure deployment, and CI/CD automation. I am highly adaptable to new environments, responsible in completing tasks with accuracy, and committed to delivering high-quality results.

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## KEY COMPETENCIES

- **Backend Development** ( Python, Django )
- **Frontend Development** ( JavaScript, Vue js )
- **Web Automation & Scraping** ( Selenium )
- **RESTful API Design & Integration** ( Rest Framework )
- **Live Tracking & Geolocation Systems** ( Google Maps, Mapbox )
- **Database Management & Optimization** ( Object-Relational Mapping, Postgresql, MongoDB )
- **Real-Time Data Processing** ( Firebase Realtime Database, WebSocket )
- **Asynchronous Task Processing** ( Celery, RabbitMQ )
- **Cloud Infrastructure & Deployment** ( Linux, Docker, Aws )
- **Software Testing & Debugging** (Unit Testing, Error Handling, Logging, Sentry tools)
- **Cross-Functional Team Collaboration**
- **Agile & Scrum Methodologies**
- **Problem-Solving & Analytical Thinking**

## PROFESSIONAL EXPERIENCE

**blueraycargo.id**                                                                       **Oct 2021 - Present**
**Software Engineer**

Accomplishments:
- **Optimized database performance** by refactoring complex queries, reducing query length from 500+ lines to under 20 and significantly improving response time.
- **Designed and implemented unit tests**, reducing production issues and improving overall code reliability.
- **Developed a Linux-based GPS integration service**, enabling real-time device tracking through third-party APIs with optimized memory usage.
- **Migrated live tracking services from Python to Golang** to resolve memory spikes and achieve a lower memory footprint under high-throughput workloads.
- **Optimized real-time location update logic** by suppressing redundant updates during traffic congestion, significantly reducing Google Maps and Mapbox API costs.
- **Implemented asynchronous background processing** using Celery and RabbitMQ to improve system scalability and task reliability.
- **Built responsive frontend** applications using Vue.js and Nuxt.js for operational dashboards.
- **Collaborated with cross-functional teams** to deliver features aligned with evolving business requirements.
- **Monitored and resolved production** issues using Sentry, improving system stability and user experience.

**Studio Web**                                                                            **Jun 2020 - Jul 2021**

**Web Developer (Freelance)**

Accomplishments:

- **Designed and launched company profile** websites to improve SMEs' digital presence and customer acquisition.
- **Developed e-commerce platforms** supporting secure online transactions, contributing to business sales growth.
- **Built catalog and ordering systems** to streamline customer purchasing workflows.
- **Collaborated directly with clients** to gather requirements and deliver scalable, cost-effective web solutions.

**PT. Ardata Digital Asia**                                                              **Feb 2021 - Maret 2021**

**Web Development (Internship)**

Accomplishments:

- **Designed UI mockups and portfolio websites** to enhance the company's professional branding.
- **Developed a school uniform customization and ordering application**, improving user engagement and order accuracy.
- **Adapted to changing requirements and tight deadlines**, consistently delivering tasks on schedule.

**SMKN 1 PEMALANG**                                                                        **Feb 2018 - Mar 2018**

**IT Support (Internship)**

Accomplishments:

- **Installed and configured classroom computer networks,** enabling efficient data sharing.
- **Optimized bandwidth allocation**, ensuring fair and stable internet access across multiple rooms.
- **Performed hardware maintenance and repairs** (RAM, power supply), extending device lifespan.
- **Provided daily technical support**, resolving issues promptly and reliably.

# EDUCATION

**Politeknik Negeri Cilacap**

D3 Teknik Informatika (3.71 / 4.00 GPA)

# PERSONAL PROJECT

### E-Commerce Management System (Inventory & Purchasing) on development

- Built a modern and scalable E-Commerce Management System using Django and Django REST Framework to manage products, categories, vendors, and purchasing workflows.
- Developed a clean and intuitive admin dashboard with secure RESTful APIs for seamless web and mobile integration.
- Designed a flexible and scalable backend architecture suitable for startups, SMEs, and growing businesses.
- Leveraged AI-assisted development (Claude) to accelerate feature delivery, refactor code, and improve overall code quality while maintaining full ownership of system design and business logic.
- Focused on clean code principles, scalability, and business-oriented solutions.

### Crypto Trading Alert Bot (MACD + AI + Telegram Integration) on development

- Developed a real-time crypto trading alert system consuming market data via WebSocket and applying technical indicators to identify potential buy/sell signals.
- Implemented technical analysis strategies using MACD, RSI, and ADX to filter high-confidence market trends.
- Integrated AI-assisted analysis to generate human-readable market summaries and signal explanations.
- Built automated reporting and visualization with charts and daily summaries delivered via Telegram Bot.
- Leveraged AI coding assistance (Claude) to accelerate development, refactoring, and code quality improvements while maintaining full control over system architecture and logic.

### Decision Support System (SAW Method)
- Built a decision support system using the SAW (Simple Additive Weighting) method to solve multi-attribute decision-making problems.
- Implemented weighted performance ratings for each alternative across multiple attributes.
- Tech: Python, Django
- Source code : https://github.com/DimasGithub/DECISION-SUPPORT-SYSTEM

### SIPJASA – Service Information System
- Developed a web-based platform to provide general service information with features such as order monitoring, service reviews, and error management.
- Tech: Django Framework, Bootstrap
- Source code: https://github.com/DimasGithub/SIPJASA

### Microservices Uploader File
- Created a microservices-based file uploader system with Django for handling uploads efficiently.
- Tech: Django, Microservices Architecture
- Source code: https://github.com/DimasGithub/microservices_uploader_file

### BorneoStore.co.id (Freelance Project)
- Built an e-commerce website for smartphone product sales.
- Tech: Django, E-commerce Integration
- Website: borneostore.co.id

### Management Stock System (Freelance Project)
- Developed an admin dashboard for stock management, product monitoring, and error logging.
- Tech: Django, PostgreSQL, Bootstrap
- Website: admin.borneostore.co.id

### E-Ternak
- Designed and implemented an e-commerce platform for buying and selling livestock with a custom order system.
- Tech: Django Framework, PostgreSQL
- Source code: https://github.com/DimasGithub/e-ternak

## TRAINING AND CERTIFICATES

### AWS Cloud Practitioner Essentials – Amazon Web Services
- Fundamentals of cloud computing, AWS services, global infrastructure, and pricing. (13 hours)

### Back-End Application Development for Beginners – Dicoding (AWS Collaboration)
- Built RESTful APIs with proper backend implementation and deployment. (45 hours)

### Getting Started with Python Programming – Dicoding
- Learned Python fundamentals and scripting using Jupyter Notebook,(12 hours)