



NIKOLIUS LAU

Tangerang, Indonesia
+62856.4394.1909
n1colius.lau@gmail.com

ABOUT ME

Hi, I'm Nikolius. A passionate and detail-oriented Lead Engineer, I am dedicated to transforming innovative ideas into practical, effective solutions. With over 15 years of experience in the engineering field, I have honed my skills in project management, team leadership, and advanced technical expertise.

Throughout my career, I have successfully led cross-functional teams, fostering a collaborative environment that encourages creativity and continuous improvement. I take pride in my ability to manage complex projects from concept to completion, ensuring on-time and within-budget delivery.

My key strengths include:

- Strategic Planning and Execution
- Advanced Problem-Solving and Critical Thinking
- Expertise in Web Application Development in Cloud Architecture
- Strong Communication and Interpersonal Skills
- Commitment to Quality and Excellence
- Takes Full Responsibility for Their Work

I am always eager to embrace new challenges and leverage my technical acumen to drive innovation and efficiency. I believe in the power of technology to create meaningful change and am excited to connect with like-minded professionals who share this vision.

EDUCATION

UNIVERSITAS KRISTEN DUTA WACANA

2002 - 2008

Bachelor's degree, Computer Science

WORK EXPERIENCE

Lead Engineer | PT Koltiva

NOV 2021 – Present

Core Responsibilities

I directly lead a team of 6 engineers and oversee an entire division, including QA, mobile, and database engineers, totaling about 15 people, to ensure smooth operations. One of the key responsibility is to make sure there are no stopper on the development side and ensure the communication is flowing across all team members.

Key Highlights and Achievement

- Successfully migrate from traditionally VPS on Digital Ocean to AWS EC2 with Gitlab CI/CD Pipelines
- Successfully implement Customer Identity And Access Management with AWS Cognito
- Successfully implementing assets with content delivery network using AWS S3 with CloudFront
- Successfully migrating from traditionally hosted MySQL Server to AWS RDS Aurora with multi region setup
- Successfully converting Kafka Pub/Sub to Laravel Jobs using AWS SQS and Lambda
- Successfully migrating from traditional DB to Redis for the application reference data for quicker loading time

Technology and Tools

PHP | MySQL | Javascript | ExtJs | AWS EC2, AWS Cognito, AWS S3, AWS Lambda, AWS API Gateway, AWS RDS MySQL Aurora | Apache Airflow | Redis | Gitlab | JIRA | Microsoft Office 365

Senior Web Developer and System Analyst PT Koltiva

NOV 2018 – Nov 2021
3 years 1 month

Core Responsibilities

Led a team of 3 web engineers in developing an enhanced system for managing data collection and reporting applications. This system was designed to handle multiple commodities and a broader user base, making it accessible to multiple clients.

Key Highlights and Achievement

- Successfully expanded the data collection application from a single commodity to multiple commodities and from a single client to multiple clients.
- Developed our own Dynamic Questionnaire application, adapted from DHIS
- Developed our sync data feature from mobile application to the database server using kafka pub/sub method with NodeJS
- Created an application feature for cocoa farmer certification based on the Rainforest Alliance (RA) Standard for MARS and Cargill Farmers

Technology and Tools

PHP | MySQL | Javascript | ExtJs | Object-Oriented Programming (OOP) Linux Web Server and Database Hosting | Apache Kafka | NodeJS | Gitlab | Trello | Slack

Web Developer and System Analyst PT Koltiva

Mar 2016 – Nov 2018
2 years 9 months

Core Responsibilities

I am responsible for developing a web application system for managing data collection and generating reports. Additionally, I am in charge of developing an HRIS ERP system and am directly involved in designing the flow and database for the system.

Key Highlights and Achievement

- Successfully implemented an ERP system for several NGOs, focusing on Project Management and Employee Time Recording

- Built a core system for data collection, the certification process for farmers, and data visualization and reporting for multiple clients in the cocoa commodity sector

Technology and Tools

PHP | MySQL | Javascript | ExtJs | Data Collection | Data Reporting | Data Visualization | System Analysis | Object-Oriented Programming (OOP) | Linux Web Server and Database Hosting | Gitlab | Trello | Slack

Software Engineer | Self-employed (Freelance)

July 2021 – Present

Professional Summary

Personal Side Projects for learning, experimenting with new technologies, and undertaking freelance jobs.

Key Highlights and Achievement

- POS System Development: Created and maintained a POS system for a local building supply store, supporting all aspects of store operations.
- E-KTP Information Extraction: Utilized Google Cloud Vision API to extract data from E-KTP.
- Stock Market Data Scraping: Developed a Python Selenium script to scrape data from the Indonesia Stock Market.
- Static Website Setup: Deployed a static website using AWS S3.
- Dota 2 Winrate Forecasting: Forecasted win rates for Dota 2 professional e-sports matches based on hero selection.
- Data Visualization: Created simple data visualizations using ChartJS and Google Maps API.
- Web Push Notifications System: Implemented a web push notification system with AWS S3, AWS API Gateway, AWS Lambda, and DynamoDB.

Technology and Tools

Data Reporting | Amazon Web Services (AWS) | Systems Analysis | E-commerce | Data Reporting | Data Scraping | Python | NodeJS

Web Developer | PT Gamatechno

Feb 2010 – Feb 2016

6 years 1 month

Professional Summary

Web Application Engineer specializing in building comprehensive information systems for universities, effectively managing students, lecturers, and staff.

Core Responsibility

Business Process Design and Development: Created and optimized processes for student enrollment, grading, scheduling, graduation, and alumni management, including database design.

Key Highlights and Achievement

- System Implementation: Successfully implemented the system in over 100 universities across Indonesia.
- Scheduling Feature: Designed and developed a scheduling feature that detects conflicting schedules for students and lecturers.
- Classroom Management: Developed a classroom management system to allocate students according to room capacity.

- Online Registration: Migrated the class registration process from manual to online, eliminating the need for early morning queues and ensuring fair class distribution.
- Alumni System: Implemented a student alumni system to allow companies to view alumni data, enhancing job opportunities for graduates.

Technology and Tools

Data Reporting | Web Application | Database Design | Software Development | System Analysis | PHP | MySQL | Javascript | Object-Oriented Programming (OOP) | Linux Web Server and Database Hosting

Store Manager | Hawaii Sports

Aug 2010 – Aug 2011

1 year 1 month

Professional Summary

Experienced Store Manager adept at handling all aspects of business operations from end to end, ensuring seamless functionality and growth.

Core Responsibility

- Store Product Management: Oversaw product purchasing, display, and stock management.
- Market Analysis: Forecasted product trends and set competitive pricing strategies.
- Team Leadership: Led a team of 2 employees focused on customer service and sales.
- E-Commerce Development: Created and managed an online store to expand sales channels.
- Digital Marketing: Managed social media and online advertising to enhance customer reach.
- POS System Implementation: Developed a simple POS system for efficient sales tracking and stock management.

Key Highlights and Achievement

- Record Sales: Achieved an all-time high sales record during the AFF Cup event.
- Online Sales Growth: Increased online sales by 35% through the web store and e-commerce platforms.
- System Integration: Successfully integrated a POS system in-store for improved product stock management and sales monitoring, enhancing product purchasing forecasts.

Technology and Tools

Data Reporting | PHP | JavaScript | MySQL | Linux VPS Hosting for the online store | Self made POS system