



Fajar Laksono

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Summary

Research-oriented Software Engineer and Business Analytics Master's candidate with 7+ years of experience in system design, data analysis, machine learning implementation, and large-scale backend systems. Strong interest in Artificial Intelligence, applied machine learning, data-driven optimization, and technology impact research. Experienced in experimental design, performance benchmarking, automation research, and cost optimization modeling.

Research Interest

Software Engineering, • Data Engineering & Scalable Systems, • Applied Machine Learning & Predictive Modeling, • Optimization & Performance Benchmarking, • AI in Industry & Economic Impact of AI, • Automation Systems & DevOps Research, • Business Analytics & Data-Driven Strategy.

Education

Master of Business Analytics, Universiti Sains Malaysia, Malaysia. 2024-July 2026

- GPA: 3.50/4.00.
- Relevant Coursework: Data Programming, Predictive Analytics for Business, Machine Learning, and Economic and Management Insight.
- Organization Involvement: AI Trainer in Indonesian Students Association
- Research: The Impact of Artificial Intelligence on Employment in Knowledge-Intensive Industries (In progress)

Bachelor of Information System Management, Universitas Bina Sarana Informatika, Indonesia. 2015-2019

- GPA: 3.79/4.00.
- Relevant Coursework: Databases and Data Structure, Software Engineering, and Project Management.
- Organization Involvement: Leader and Teacher in Programming and Animation Forum
- Publications: Analisis Kepuasan Pengguna Youtube Sebagai Media Pendidikan Menggunakan Model DeLone Dan McLean (2019), • Learning Management System Web-Based Application for Computer Science (2018).

Professional Experience

Shieldbase AI - Malaysia

Technical Product Lead, March 2025 - Present

- Led cross-functional teams across Product, Engineering, and QA, defining roadmap priorities and execution plans while maintaining delivery predictability and quality standards.
- Translated business and customer requirements into clear technical specifications, backlog items, and release plans, enabling efficient and consistent product delivery. system design and technical decision-making evaluation for AI-based solutions, balancing scalability, performance, and long-term maintainability.

AccelByte Inc - Indonesia, USA-based

Analytics Engineer, March 2021 - December 2024

- Led a research initiative to identify and implement strategies for reducing CDN and Storage costs, leveraging data analysis, benchmarking, and evaluating alternative providers. Ultimately, I successfully introduced an optimized solution, onboarded the new vendors, realized around 40% reduction in CDN and Storage costs, and the research was adapted to all company products. Significantly improving operational efficiency and cost savings.
- Led a research initiative to automate the release and Deployment of the services by implementing an

Automated Release and Deployment design. As a result, it has successfully improved team productivity speed during the release train by 25%-40% and reduced manual intervention.

- Led an initiative to automate data warehouse migration script by implementing Flyway and made a sandbox environment, successfully improving Database Engineers' productivity by 25%-40% and reducing manual migration errors.
- Research, designed and developed scalable and stable backend solutions by collaborating with cross-functional teams and implementing system designs, ensuring on-time delivery of features and enhancing user satisfaction

Agate International - Indonesia

Full-stack Programmer, September 2020 - March 2021

- Designed and developed the backend system and its admin portal for a game, ensuring a robust and scalable infrastructure that supported seamless gameplay and management features. Ensured timely delivery of the project by adhering to deadlines, coordinating with cross-functional teams, and mitigating obstacles to maintain the project schedule.

PT. Gria Inovasi Teknologi - Indonesia

Software Engineer, September 2019 - March 2020

- Designed and Developed backend and frontend for a national management system for the Attorney General of Indonesia using PHP Laravel and Bootstrap. Coordinated daily with stakeholders to refine requirements and delivered the system on schedule with a user-friendly interface and efficient server-side logic.

Universitas Bina Sarana Informatika - Indonesia

Lab Assistant, June 2016 - September 2016

- Assisted in laboratory instruction for programming courses (PHP, C/C++, Visual Basic). Guided students in debugging, system logic design, and structured problem-solving. Supported academic instruction and practical experimentation sessions.

PT. Mitra Mandiri Informatika - Indonesia

Junior Programmer, April 2016 - September 2016

- Contributed to building decision support system (DSS) applications. Gained hands-on experience in programming and application architecture. Employed VB.net + Microsoft Access and PHP + MySQL technologies.

Portfolio

Heart Disease Analysis • Eye Health Analysis and Machine Learning Models Selection • Data Profession Survey Analysis with Power BI • Card and Fraud transaction analysis • Prediction with Machine Learning •
and See more portfolios: <http://fajarlaksono.github.io/research>

Technology Experience

Software Development: Python, Go, C, C++, C#, PHP, Java, Docker, Kubernetes, CI/CD, Jenkins, makefile.

Databases / Data Warehouses: Vector PostgreSQL, MySQL, MongoDB, Snowflake, Redis, Kafka, Elasticsearch.

Large Language Models: OpenAI, Anthropic, GoogleGenAI.

Data Integration / ETL Tools: Databricks, Kafka Connect, Airflow.

Cloud Platforms: AWS, GCP.

Data Visualization: Power BI, Grafana, Excel, Google Spreadsheet.

Libraries / Frameworks: Pandas, scikit-learn, TensorFlow, matplotlib, Laravel, WordPress, Spring Boot.

Project Management: Jira, Linear, Confluence, Miro.