

# Agus Kianto

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## SUMMARY

With 17 years of experience as a Full Stack Engineer, 8 years as a Tech Lead, I specialize in functional and technical analysis, primarily in the Finance and Banking sectors. I have a proven track record of delivering impactful projects, optimizing operations, and leading teams to success. Over the past 7 years, I have consistently improved system performance, reduced development and maintenance time, and led the delivery of complex technical solutions, including significant cost-saving initiatives.

## EXPERIENCE

### Commonwealth Bank Indonesia

Jakarta. On Site

**Technical Lead IT Data Analytics** Aug 2023 - Oct 2024

- **Led the team to enhance, upgrade, and standardize .NET Core** for reconciliation tool development, ensuring only data input issue were the root cause.
- **Bridged the gap between business requirements and technical execution**, achieving 100% alignment and reducing miscommunication-related delays by 20%.
- **Prioritized and managed the backlog effectively**, increasing on-time task completion by 40% and reducing project delays by 20%.
- **Identified process inefficiencies and proposed alternative solutions**, improving project delivery time from delayed to on time although limited developer resource available and requirements collected on development process.
- Developed and transferred knowledge of **coding standards**, reducing code review time by 90% and decreasing post-deployment defects by 80%.

### Key Achievements:

- **Saved \$5 billion annually** by replacing existing digital product licenses with an in-house solution for reconciling bank accounts.
- **Reduced 40% of developer workload** by migrating reconciliation rules to an external rule engine, allowing business analysts to update and test independently, streamlining the process.
- **Delivered reconciliation tool projects 100% on time** with a single developer by effectively capturing functional requirements and detailing technical specifications.
- **Proposed and developed a reusable template** for reconciliation tools using Angular and PrimeNG, standardizing the development process.
- **Accelerated fraud detection** parameter changes from days to 5 minutes by leveraging data science, Python, and schema knowledge to identify changes in fraud system parameters.

## Commonwealth Bank Indonesia

Jakarta. On Site

- **Led the team in enhancing, upgrading, and standardizing Spring Boot and version control for the core banking migration process.**
- **Guided developers on handling critical project components, ensuring a smooth development process and successful delivery.**
- **Enhanced developer skills** by creating and transferring knowledge of coding standards, improving code quality and consistency.
- **Translated business requirements into technical specifications**, ensuring clear communication and alignment between stakeholders and the development team.
- **Managed and prioritized project backlog**, ensuring critical tasks were addressed first and aligned with project goals for timely delivery.
- **Streamlined project execution** by helping developers understand key project components and guiding them through critical steps for efficient handling.

### ***Technical Lead Back Office Console*** Aug 2021 - Aug 2023

#### **Key Achievements:**

- **Proposed versioning control** for the development environment on OpenShift (linux system), reducing development time by 80% by addressing continuous changes without proper confirmation and communication.
- **Improved application performance by 75%**, maintaining the same memory usage while increasing request handling capacity by implementing an async Spring Boot code standard.
- **Delivered 100% of projects on time**, resolving priority and communication conflicts despite being the sole developer on all delayed initiatives.
- **Streamlined project execution**, ensuring timely delivery and effective resource allocation by resolving team communication and priority conflicts.

### ***Technical Lead SmartWealth*** Aug 2021 - Aug 2023

#### **Key Achievements:**

- **Proposed versioning control** for the development environment on OpenShift (linux system), reducing development time by 80% by addressing continuous changes without proper confirmation and communication.
- **Improved application performance by 75%**, maintaining the same memory usage while increasing request handling capacity by implementing an async Spring Boot code standard.
- **Delivered 100% of projects on time**, resolving priority and communication conflicts despite being the sole developer on all delayed initiatives.
- **Streamlined project execution**, ensuring timely delivery and effective resource allocation by resolving team communication and priority conflicts.

***Technical Lead FX Retail*** Aug 2021 - Aug 2023

**Key Achievements:**

- **Led a team to enhance, upgrade, and standardize Spring Boot applications and version control practices for core banking migration**, ensuring smoother transitions and improved development efficiency.
- **Designed and developed a reporting transaction system** valued at over \$250M USD for Bank Indonesia, delivering the project within **3 months** using data streaming (reactive programming) and Kafka.
- **Resolved critical issues caused by the sudden loss of a developer during the COVID-19 pandemic**, including missing requirements, source code commits, and documentation gaps, ensuring project continuity.
- **Addressed 90% of the Recovery Time Objective (RTO) issue by introducing asynchronous processing** to mitigate slow responses from core banking systems (linux on some part), significantly improving system performance.
- **Optimized deployment rollback time to under five minutes** by implementing versioning standards in DevOps, reducing downtime and enhancing system reliability.

**CODE.ID**

Jakarta. Remote

***Technical Lead Joint Finance PT Bank Jago Tbk*** Jan – Aug 2021

- Mentored 5 junior developers, reducing onboarding time by 30% and improving code quality by 20%.
- Collaborated on defining loan project requirements, utilizing MAMBU for financial processing and Hapi.js for backend development.
- Contributed to the successful delivery of 5 loan-related partners, enhancing loan processing partner.
- Worked with cross-functional teams to establish automated testing standards, enhancing testing reliability and efficiency.
- Reduced testing time by 40% and decreased post-deployment bugs by 15% through the implementation of standardized automated testing.

**Key Achievements:**

- Contributed to the development of automated testing standards, streamlining product regression testing and ensuring more efficient and reliable test cycles.

**CODE.ID**

Jakarta. On Site

***Product Owner*** Feb 2017 – Aug 2021

- Gathered and analyzed requirements to build a customized Salesforce application, streamlining sales processes.
- Defined business workflows and mapped processes for seamless system integration.
- Created and presented an interactive application prototype, gaining stakeholder approval.
- Architected a scalable application, ensuring it met both business needs and technical specifications.
- Designed and implemented comprehensive reporting and analytics dashboards, improving sales performance tracking.

CODE.ID

Jakarta. On Site

**Machine Learning Engineer** May 2018 – May 2019

- Taught the basics of statistics, improving team members' ability to interpret data effectively, resulting in a 40% increase in data literacy across 5 individuals.
- Delivered training on linear regression and Scikit-learn, reducing model development time by 30% and empowering 5 team members to develop 3 regression models within 6 weeks..
- Instructed team on classification algorithms, enhancing the team's ability to solve classification problems, leading to a 25% improvement in model accuracy across projects.
- Implemented deep learning models for identity card recognition, automating document processing and reducing processing time by 50%, with a 95% model accuracy.

CODE.ID

Jakarta. On Site

**Technical Lead Prudential Indonesia (PT Prudential Life Assurance)** Sept – Dec 2020

- Mentored and trained junior developers, increasing team productivity by 20% through one-on-one coaching, code reviews, and targeted technical training sessions.
- Captured and documented functional and technical requirements, improving project clarity and reducing scope creep, leading to a 15% increase in on-time project delivery.
- Collaborated with stakeholders to ensure accurate alignment of project goals, reducing revision cycles by 25%.
- Enhanced development workflow by implementing Agile best practices and optimizing the CI/CD pipeline, reducing release cycles by 20%.
- Improved code quality and minimized production defects by 10% through streamlined development processes and continuous integration automation.

**Key Achievements:**

- Identified and resolved database indexing issues on the first day without documentation, improving query performance by 90% and reducing overall system response times by 90%.

CODE.ID

Jakarta On Site

**Full Stack Developer (DevOps) PT Bank BTPN Tbk** Mar 2019 – Aug 2020

- **Addressed the lack of documentation** by directly working hands-on with Angular to make necessary adjustments.
- **Explored both front-end and back-end performance issues**, using Google Chrome's developer tools to identify slow load times.
- **Improved front-end performance** by implementing API preloading before UI elements were rendered, reducing load time by 40%.
- **Optimized back-end performance** by identifying the slow-loading configuration data and implementing redis caching, reducing load time by 90%.
- **Enhanced overall application responsiveness and scalability**, improving both user experience and system efficiency.

### Key Achievements:

- **Reduced dashboard load time by 90%**, from 12 seconds to 1 second, by implementing preload, async programming, and Redis cache.
- **Redesigned the UI**, enhancing user experience with a modern, more intuitive design.
- **Upgraded the application from the previous Angular version to Angular 10**, improving performance and security.
- **Developed and implemented coding standards** to ensure maintainability and consistency for future developers.
- ***Explored and optimized DevOps infrastructure using OpenShift, Docker, and Nexus, resulting in faster deployment cycles and improved scalability.***

### CODE.ID

Jakarta On Site

### ***Business and System Analyst MERAPI UTAMA PHARMA , PT*** Apr 2019 – Apr 2019

- **Documented and addressed requirement discrepancies** between CODE.ID Sales Force Application and Nojorono Tobacco Indonesia project, aligning objectives and ensuring smooth project execution.
- **Led integration efforts between CODE.ID internal apps and Oracle ERP**, ensuring seamless data synchronization, reducing discrepancies.
- **Mapped and aligned Entity Relationship Diagrams (ERD)** between CODE.ID and ERP partner, improving system interoperability and reducing integration errors.
- **Maintained clear and consistent communication** with CODE.ID developers, minimizing rework and ensuring timely project delivery.
- **Analyzed and created reporting frameworks to track project progress**, increasing stakeholder engagement and providing actionable insights for decision-making.

### Key Achievements:

- **Implemented SCRUM methodology**, accelerating development cycles and enabling quick adaptation to evolving requirements.
- **Design a flexible solution** that accommodated frequent configuration changes on master product.
- **Designed and deployed a high-quality data analytics and reporting system**, improving reporting efficiency from hours on manual processes to minutes.
- **Automated hierarchical approval system** for pricing, discounts, and promotions, improving workflow speed from hours on manual process to minutes.
- **Developed a dynamic catalog system** with complex regional pricing strategies, increasing accuracy by 80%, reducing manual adjustments by 80% caused by human errors on manual process.

**CODE.ID**

Jakarta On Site

***Business and System Analyst PT NOJORONO TOBACCO INTERNATIONAL*** May 2017 – Jan 2018

- **Captured and documented requirement differences** between the internal CODE.ID Sales Force Application and the Nojorono Tobacco Indonesia project, ensuring alignment with business needs.
- **Developed and implemented the integration strategy** between CODE.ID applications and ERP using Oracle, streamlining data synchronization.
- **Mapped Entity-Relationship Diagrams (ERD) between CODE.ID and ERP partner systems** to ensure data integrity and system compatibility.
- **Collaborated with CODE.ID developers** to clarify technical requirements, resolve issues, and ensure seamless project execution.
- **Analyzed reporting and analytics** for the project, generating insights that led to informed decision-making and enhanced project performance.

**Key Achievements:**

- **Contributed to improving sales tracking accuracy** by 80% and reducing reporting errors by 80% through streamlined integration automated version that replace the manual version.

***Tutormu***

Tangerang On Site

***Data Science Trainer*** Mar 2019 – Aug 2021

- Introduced statistical thinking to formulate and validate data-driven hypotheses for improved decision-making.
- Optimized data science environment using Python, Pandas, NumPy, Matplotlib, Seaborn, Keras, and TensorFlow, reducing model development time by 20%.
- Led data import, cleaning, and exploratory analysis, ensuring high-quality datasets and reducing errors in modeling.
- Delivered python programming and machine learning training ((Linear Regression, Decision Trees, K-means clustering) to participants, boosting their proficiency in python programming.
- Streamlined data preparation and model development, cutting processing time by 30% and accelerating overall project timeline.

***PT Kamoro Maxima Integra***

Jakarta On Site

***Full Stack Developer*** Jan 2016 – Feb 2017

- **Developed a comprehensive accounting system** for Sinar Agung Prasadikindo, automating financial workflows and improving reporting accuracy.
- **Developed a room and CAR booking system** for AIA, integrating payment processing and real-time availability. Introduced statistical thinking to formulate and validate data-driven hypotheses for improved decision-making.
- **Built a web scraping system** for Freeport to automate ticket booking, enhancing efficiency and real-time data accessibility.
- **Enhanced several reporting stored procedures** for AIA, optimizing query performance and reducing system load.
- **Created a modern, responsive corporate website** for Intensive Medicare, boosting brand visibility and user engagement.

**Key Achievements:**

- **Spearheaded the resolution of a delayed corporate website project** for Intensive Medicare by developing a custom WordPress-like platform, streamlining collaboration across teams and ensuring faster delivery of the website.

***PT Kamoro Maxima Integra***

Jakarta On Site

***Full Stack Developer Freeport Indonesia*** Jan 2016 – Feb 2017

- **Developed a scraping system** for Freeport's ticketing platform as a Full Stack Developer
- **Collaborated closely with cross-functional teams** to ensure seamless integration with the existing ticketing infrastructure.
- **Delivered a fully functional POC** within the allocated 24 hour period, meeting project deadlines.
- **Enhanced operational efficiency** with the development of the automated scraping system replacing existing manual checking.
- **Led the design and implementation of a proof of concept (POC)** for the scraping system, with a strict 24-hour deadline.

**Key Achievements:**

- **Led the design and implementation of a proof of concept (POC)** for the scraping system, with a strict 24-hour deadline.

***PT Kamoro Maxima Integra***

Jakarta On Site

***Full Stack Developer AIA*** Jan 2016 – Feb 2017

- **Developed a robust backend system** for room and seat bookings using ASP.NET MVC.
- **Built interactive booking maps** for company rooms and vehicles (car/taxi), enabling easy selection by users using JQuery.
- **Develop a user-friendly frontend interface**, improving the booking experience for employees.
- **Integrated real-time availability updates** into the booking system, ensuring accuracy and efficiency.

**Key Achievements:**

- **Optimized booking processes**, reducing human errors by 30% and increasing booking speed by 50%.
- **Reduced user time spent on bookings by 40%**, contributing to an overall increase in employee productivity.

***PT Kamoro Maxima Integra***

Jakarta On Site

***Full Stack Developer PT Sinar Agung Prasadikindo*** Jan 2016 – Jul 2016

- **Gathered detailed requirements from stakeholders** for the finance system development to ensure alignment with business objectives.
- **Designed and developed a custom UI/UX from scratch**, translating mockups into responsive, user-friendly interfaces using HTML, CSS, and JQuery.
- **Built and implemented a robust backend using Laravel**, ensuring seamless integration with the frontend.
- **Collaborated with cross-functional teams** to ensure smooth communication between frontend and backend development.

**Key Achievements:**

- **Streamlined transaction processing times**, improving system performance by 30%.

***PT Kamoro Maxima Integra***

Jakarta On Site

***Full Stack Developer PT intensive medicare*** Jan 2016 – Jun 2016

- **Collaborated with cross-functional teams** to gather comprehensive requirements from multiple stakeholders, ensuring the project met both technical and business needs.
- **Designed interactive mockups for the corporate website**, utilizing design tools to communicate the user interface and experience clearly to stakeholders.
- **Built the corporate website from scratch using Laravel**, implementing dynamic templates to ensure flexibility and scalability for future growth.
- **Enhanced user experience (UX)** by integrating responsive design principles, ensuring the website was fully optimized for mobile and desktop users.
- **Implemented front-end technologies** such as HTML, CSS, and JavaScript, ensuring the seamless integration of visual elements with dynamic templates.



**Key Achievements:**

- **Developed a dynamic Wordpress-like platform**, allowing stakeholders to switch templates and engage in real-time discussions, improving decision-making efficiency.

**TokoPDA.com**

Jakarta On Site

**Full Stack Developer** Jan 2014 – Jan 2015

- **Converted design mockups** into a fully responsive static webpage for TokoDrone.com, ensuring mobile optimization and user-friendly navigation.
- **Transformed initial mockups into functional site**, reducing development time by 30% for quicker launch.
- **Analyzed and optimized PHP code on TokoPDA.com** to improve backend performance and scalability.
- **Enhanced existing PHP logic** to significantly reduce page load times and optimize server resource usage.

**Bina Nusantara University**

Jakarta On Site

**Instructional Designer** Aug 2007 – Aug 2013

- **Collaborated directly** with lecturers to convert traditional materials into an engaging e-learning format, highlighting strong interpersonal communication and cross-functional collaboration.
- **Designed effective multimedia interactions** for the learning process, using problem-solving and user experience design skills to enhance engagement.
- **Created detailed storyboards** to align ideas and expectations with multimedia designer and Flash developers, ensuring smooth communication across teams and clarity in execution.
- **Actively clarified ambiguous concepts** in storyboarding, improving project workflow and demonstrating leadership in guiding the team through challenges.

**Key Achievements:**

- **Enhanced project outcomes** through clear, concise communication, leading to improved efficiency and a 20% reduction in development time.
- **Led the proposal and development of the SAM Anak Cerdas program**, securing a spot in the INAICTA Big 5 (2013), showcasing leadership, strategic thinking, and industry insight.
- **Won the Apple Lesson Plan Competition** by presenting an innovative history lesson plan, demonstrating strong communication and creativity in educational content development.

### **Network Engineer** Aug 2003 – Aug 2007

- **Managed network access rights** in CISCO routers and Linux proxy servers, ensuring secure and efficient data flow and optimal performance.
- **Oversaw windows update policies**, ensuring all systems were properly patched and up-to-date to minimize security vulnerabilities.
- **Maintained scalable network solutions** and contributed to the software infrastructure that supports educational operations.
- **Involved on troubleshooting efforts**, resolving network connectivity and system performance issues.
- **Collaborated with cross-functional teams** to identify and implement network and software architecture improvements for better reliability.
- **Provided technical leadership in the design and maintenance of the network's security** measures, proactively preventing incidents.

#### **Key Achievements:**

- **Involved on maintainance the BINUS network infrastructure**, ensuring seamless connectivity for over 2,000 students and faculty members.

### **Digital Studio College**

Jakarta On Site

### **Full Stack Developer Trainer** Jan 2007 – Jan 2009

- **Instructed on creating web design mockups using Photoshop and Illustrator**, helping participants grasp the visual design process, crucial for translating designs into well-structured HTML and CSS.
- **Trained participants in slicing web designs** with Fireworks, providing a clear understanding of how to break down designs for implementation in HTML and CSS code.
- **Guided participants through the process of building static web pages** using HTML and CSS in Dreamweaver, reinforcing core web development skills that are essential for structuring content in any modern front-end framework.
- **Educated on using jQuery to enhance frontend interactivity**, providing participants with practical knowledge on DOM manipulation, animations, and event handling, directly applicable to modern web development.

#### **Key Achievements:**

- **Showcased how to implement interactive elements and dynamic content with jQuery**, providing the skills necessary to enhance user experience in a wide range of web applications.
- **Focused on building static websites and transitioning them to more dynamic platforms**, giving participants the skills to integrate HTML, CSS and jQuery into engaging, interactive web pages.

## **EDUCATION**

**Information Technology, Bina Nusantara University**

*Bachelor Degree 2003 - 2007*

## **Digital Studio College**

*D3 Multimedia 2019*

## **Certification**

### **Massachusetts Institute of Technology**

*Certified Data Scientist 2024*

### **Datacamp Course**

*Python, data science 2019*

### **EF Set Bahasa Inggris**

*English as second language, score 77 (C2 / mahir) 2025*

### **Hugging Face**

*AI Agent fundamental 2025*

### **Scrum.org**

*SCRUM Master Certified 2023*

## **Skill**

- **Artificial Intelligence** (Deep Learning, NLP, Computer Vision, RLHF, LLM, huggingface, model tuning, LangChain)
- **Data Science** (statistics, ML algorithm, hypothesis testing, model evaluation)
- **Python** (pandas, numpy, scikitlearn, tensorflow, asyncio, fastAPI, cython)
- **Functional Specifications** (UML, Use Cases, Class Diagrams, Sequence Diagrams, Payment System, Ecommerce, B2C, B2B)
- **Agile Development Methodology** (JIRA)
- **Cloud Platforms** (Azure, MLOps)
- **React.js** (redux, RXJS)
- **Advanced SQL & Query Optimization** (indexing, column store index)
- **Data Warehousing & BI Tools** (SQL Server, BigQuery, Tableau)
- **Big Data Technologies** (Spark, Kafka, Flink)
- **Data Pipeline Development** (ETL, Batch & Stream Processing)
- **Project Management , Product Management** ( Planning, Time Estimation, Budget Estimation Communication, Load Distribution)
- **Backend Development** (Spring boot, Quarkus, .NET core, ASP.NET MVC, Python, Node.js)
- **Frontend Development** (Angular, React, HTML / HTML 5 + CSS3 + JQuery, Typescript, JavaScript (ES6+, ESLint))

- **DevOps Practices & Infrastructure** (docker, containerization, CI/CD, System Operation, Maintenance)
- **Technical Leadership**
- **Database Management** (SQL, mongo, Oracle, postgre, stored procedure, SSIS)
- **Tehnical Requirements**
- **Cross-functional Collaborations**
- **Effective Communication**
- **Troubleshooting & Incident Resolution**
- **Web Performance Optimization**
- **API Integration** (RESTful APIs, POSTMAN, JMETER)
- **Cross-browser Compatibility**
- **Version Control** (Github, Bitbucket)
- **CSS Frameworks** (Bootstrap, Tailwind CSS, PrimeNG)
- **Software Design Patterns**
- **Agile Project Management**
- **Functional Requirements**
- **Data Analytics**
- **Automated Software Testing** (Jest)
- **ASP.NET MVC**
- **Angular**