

Shaquille Rayhannizam Wibisono

☎ 081233502636 | ✉ shaquille.wibisono@gmail.com | 🌐 [Portfolio](#) | [in](#) [Linkedin](#) | [G](#) [Github](#)



PROFESSIONAL SUMMARY

Cummulative GPA : 3.62/4.00 (105 Credits)

Information Systems student with strong skills in IT process and system management. Experienced in multiple programming languages, research, AI, and ERP systems. Passionate about emerging technologies and a fast learner with a keen interest in innovation and problem-solving.

Skills

- Programming: C, C++, Python, Java, PHP, React, JavaScript, OracleDB, **SAP** (Systems, Applications, and Products in Data Processing).
- Knowledge : AI, MchineLearning, DataTrain, Database, CRUD, Webframwork, LLM, NeuralNetwork, Design, Data Statistics.
- Business & Analysis: Business Process Modeling, **ERP** (Enterprise Resource Planning), Enterprise Architecture, **DAMA** (Data Management Association).
- Design Tools: Adobe Photoshop, CorelDRAW, AutoCAD, Blender, Canva, Figma.
- Leadership & Teamwork: Public Speakers for SAP Training, Practicum Assistance for **OOP** (Object Oriented Programming) Course.

Languages: Indonesian (Native), English (**Toeic** 730), Mandarin (Basic).

Scholarship : OPES (One Pipe Education System).

PROFESSIONAL EXPERIENCE

Internship – PT. Agro Properti Selaras Bersama, Ternak Park (Feb 2025 – Jun 2025)

- Developed an automated sheep monitoring system by implementing Ultralyric and CCTV integrated with OpenCV to track behavior and count livestock within enclosures, utilizing a custom-trained dataset of 300 samples. This system significantly enhanced livestock security by triggering real-time alerts for potential escapes or missing sheep.
- Built a fine-tuned AI customer service agent using the Gemma 12B language model, tailored specifically for Ternakpark's business operations, including Aqiqah services, livestock trading, land parceling, and Qurban offerings. The AI agent was optimized for handling customer queries efficiently and contextually.
- Engineered an IoT-based smart feeding scale using an ESP32 microcontroller and HX711 load cell amplifier to enable real-time feed level detection across enclosures. This solution allows farm staff to remotely monitor and manage livestock nutrition more effectively through connected infrastructure.

Pengabdian Masyarakat – Penerapan Teknologi Virtual Reality Dalam Pelatihan Online Business Simulation Pada UPT Pelatihan Dinas Koperasi dan KUKM Provinsi Jawa Timur (May 2024 – Oct 2024)

- Designed and implemented a leadership training program for Micro, Small, and Medium Enterprises (MSMEs) utilizing Online Business Simulation (OBS) integrated with Virtual Reality (VR) technology.
- Conducted comprehensive needs assessments through surveys and interviews to identify participant requirements and technology gaps.
- Developed a structured training curriculum and interactive learning modules combining theoretical and practical business leadership concepts.
- Integrated digital tools such as ClickUp (task management) and Miro (visual collaboration) to enhance participant engagement and interactivity.
- Demonstrated significant improvement in participants' digital leadership competencies and decision-making capabilities through immersive business simulations.
- Contributed to accelerating MSMEs' digital transformation and competitiveness in alignment with Industry 5.0 objectives.
- Collected feedback from participants, many of whom expressed a lack of prior understanding of VR technology. After the training, they reported a better understanding of VR, with high enthusiasm and satisfaction levels for the program.
- Authored an article titled : **Penerapan Teknologi Virtual Reality Dalam Pelatihan Online Business Simulation Pada UPT Pelatihan Dinas Koperasi dan KUKM Provinsi Jawa Timur.**

Pengabdian Masyarakat – Team BPS (Jan 2024 – Oct 2024)

- Developed individual profile websites for each village in Surabaya using Laravel framework and integrated BPS (Badan Pusat Statistik) APIs to extract and import demographic and administrative data. Each website features key information such as the village head, administrative team, and complete resident data. Data editing is managed through a centralized admin platform that regulates API access and synchronization.
- Conducted on-site demonstrations by visiting each village and delivering live presentations to local officials, showcasing the functionality and features of the custom-built websites, and providing hands-on guidance for system operation.
- Contributed to the design and development of a React-based statistical information system tailored to the needs of the local government. Key features included population dashboards, complaint tracking, geo-tagging of public facilities, and program reporting modules.
- Led post-training monitoring and evaluation, using surveys and interviews to assess the effectiveness of capacity-building efforts. Over 92% of participants reported improved technical skills in digital content and data handling.
- Successfully completed system deployment and official handover of the platform, which now serves as a public information portal and supports data-driven decision-making aligned with the Sustainable Development Goals (SDGs).
- The project was formally published in JMM – Jurnal Masyarakat Mandiri as a documented community empowerment effort with long-term impact. Research published under the title: **OPTIMALISASI PENGELOLAAN DAN PUBLIKASI DATA STATISTIK KELURAHAN GAYUNGAN MELALUI PELATIHAN DAN PENGEMBANGAN WEBSITE.**

SAP BC400 Training Speaker (2023 Feb)

- Conducted comprehensive and professional training sessions on SAP BC400, specifically designed for both national and international IT professionals. The training emphasized the core technical foundations of the SAP system, including data structures, development environments, and system navigation. Participants ranged from early-career developers to experienced system analysts, ensuring a dynamic and collaborative learning environment.
- Delivered in-depth theoretical and practical explanations of ERP system architecture, focusing on the fundamental concepts of business process integration within the SAP ecosystem. Emphasis was placed on how SAP supports core business functions, enabling participants to understand the end-to-end flow of enterprise data and transactions within a centralized system.
- Facilitated interactive, hands-on workshops and simulation-based sessions using real-world business cases. These sessions encouraged active participation and enabled learners to apply their knowledge directly within a simulated SAP environment. Practical exercises covered topics such as object creation, data modeling, and navigating SAP's repository, improving both technical skill and system fluency.
- Specialized in the SAP BC400 (ABAP Workbench Foundations) module, with a strong focus on topics such as system architecture, the role and structure of the data dictionary, repository objects, and development tools. The training was tailored to meet the needs of technical SAP users, including developers and system administrators, aiming to build a deep and practical understanding of SAP's backend development landscape.

Research Member – Sentiment Analysis on Student Complaints (Nov 2022 – May 2023)

- Contributed as a co-author to a peer-reviewed journal article published in INTENSIF Journal, focusing on sentiment analysis of over 2,000 student complaint texts to support data-driven service improvement in higher education. Participated in manual sentiment labeling using a tri-participant approach (positive, neutral, negative) to develop a high-quality supervised learning dataset.
- Applied comprehensive text preprocessing techniques including case folding, stopword removal, tokenization, and stemming using NLTK and Sastrawi libraries.
- Extracted contextual insights from complaint texts using Term Frequency (TF) to identify the most frequently raised service issues within the institution.
- Evaluated sentiment classification performance using an extended confusion matrix with six metrics: True Positive (TP), True Negative (TN), False Positive (FP), False Negative (FN), True Neutral (TNet), and False Neutral (FNet).
- Calculated model accuracy, precision, recall, and F1-score to assess predictive reliability.
- Research published under the title: “**Sentiment Analysis of Student Complaint Texts for Finding Context to Optimize Institutional Services.**”

Practicum Assistant – Telkom University (Jan 2024 – August 2024)

- Provided hands-on training and mentorship for junior students in IT practicum sessions, pada matkul Pemrograman Berbasis Object, Object Oriented Programming, memakai Bahasa pemrograman Java.
- Assisted lecturers in grading practicum reports and guiding students in troubleshoot, kesulitan saat praktikum biasanya terjadi incompatible antara JDK dengan device yang digunakan, di kurikulum menggunakan netbean sbagai JDK untuk melakukan pemrograman.
- Developed and taught core concepts and advanced implementations of OOP through a series of structured practical modules, emphasizing both theoretical and applied programming.
- Designed, documented, and delivered hands-on modules. The material covers class and object creation, including method and attribute declaration, object instantiation, and member access. Constructors are discussed in both default and parameterized forms, along with initialization logic and constructor overloading. Encapsulation is implemented through private attributes, getter/setter methods, and access control, using real-world class models such as *Nasabah*, *Tabungan*, and *Bank*. Inheritance and polymorphism are explored through single and multilevel inheritance, method overriding, and use-case examples like *Employee-Marketing*, *Animal-Dog*, and *Bicycle-MountainBike*. Abstraction is addressed using abstract classes and interfaces, including class hierarchies (*Bike-Honda*, *Laptop-Macbook*), interface-driven behavior modeling, and multiple inheritance. Additionally, the use of *static* and *final* modifiers is examined in the context of the Java memory model, shared/static members, and the constraints of finalization, such as method immutability and inheritance restrictions.
- Assisted with grading of lab reports and gave personalized feedback on design patterns, code readability, and modularization.

Internship – Kominfo Batu City (Sep 2021 – Nov 2021)

- Spearheaded the development and long-term maintenance of web-based platforms for village and sub-district governments across Batu City, as part of a broader smart governance and digital public service initiative led by Kominfo Batu. Successfully launched and supported over 15 official village and sub-district websites tailored to meet public information standards and improve citizen access to services.
- Implemented custom modules to display village profiles, public service updates, financial transparency reports, and news bulletins. Also integrated interactive features such as digital feedback forms and announcements to promote two-way communication between citizens and local authorities.
- Developed RESTful API endpoints for future integration with smart city services and regional data platforms. Ensured interoperability and data consistency across government-managed portals.
- Applied responsive design principles to ensure full cross-device accessibility, including for users in rural and remote areas with limited bandwidth. Conducted performance optimization to improve load times and reduce server load using techniques like lazy loading, asset minification, and caching strategies.
- Designed and enforced role-based access control (RBAC) and admin panel customizations, enabling authenticated village administrators to manage web content independently with minimal technical support. Created user documentation and conducted multiple on-site training sessions to build capacity within local administrative teams.
- Engaged in interdepartmental collaboration, participating in high-level meetings with local and regional government leaders to align technical solutions with public service goals. Took an active role in anti-corruption strategy discussions by proposing digital transparency mechanisms such as automated budget disclosure pages, audit logs, and real-time status updates for public programs.
- Contributed to long-term digital infrastructure planning by advising on hosting strategies, backup policies, disaster recovery readiness, and open-source adoption to reduce costs and improve system resilience.
- Outcomes of the project included measurable improvements in administrative efficiency, increased transparency in public resource management, greater citizen trust in local governance, and the establishment of a scalable digital model that could be replicated across other cities in Indonesia.

Making Portfolio Web For company – PT Joyobinangun Sejahtera (2020 August)

- Developed a dynamic company profile website for PT Joyobinangun using the Laravel framework, leveraging its robust MVC architecture to ensure clean code structure, efficient performance, and scalability for future updates or expansions.
- Designed and implemented a structured SQL database to manage key data, including a catalog of products such as soaps and detergents. Each product entry includes detailed attributes such as name, description, price, category, and stock status, enabling efficient data handling and retrieval through the admin panel.
- Customized the website’s interface and features to reflect the client’s branding and meet their specific business needs. This included implementing responsive design for mobile compatibility, interactive product listings, and visually appealing UI components to enhance user experience and engagement.
- Deployed the website using Jagoan Hosting, selecting a plan with a secure domain name, integrated email services, and 2GB RAM. This hosting configuration ensures reliable uptime, SSL security, and smooth performance even during peak visits, which is crucial for maintaining credibility and trust with users.
- Conducted comprehensive functionality and usability testing prior to deployment, including debugging, performance optimization, and cross-browser compatibility checks. This ensured the website launched smoothly without technical issues, offering a seamless experience for both users and administrators.
- Promoted the website through a targeted Google Ads campaign, focusing on relevant keywords in the hygiene and homecare product niche. The total marketing budget was approximately IDR 500,000, which included ad spend, hosting, and related services—providing cost-effective exposure and helping to attract potential customers to the new site.

EDUCATION

- Telkom University – Information Systems (2022 - Present)
- SMK Telkom Sandhy Putra – Computer & Network Engineering (2019 - 2022)

CERTIFICATION

- Microsoft Security Fundamentals (2022 - 2025)
- TOEIC Certification (2022 - 2025)
- SAP BC400 Training Speaker (2023 - 2026)
- Practicum Assistant Certification – Telkom University (2024)

ADDITIONAL INFORMATION

- Actively seeking opportunities to expand knowledge and experience in IT-related fields.
- Enthusiastic about AI (Machine Learning), Neural Network research, LLM (Large Language Model), data analysis, and emerging digital trends.