Lutfi Rizaldi Mahida
Informatics Engineering Graduate

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PROFILE

Fresh Graduate in Informatics Engineering with a GPA of 3.96, with a strong interest in Full-Stack Development. Proficient in web application development using **Python**, **PHP**, and **JavaScript**, **Typescript** with hands-on experience building integrated frontend and backend systems. Accustomed to developing structured, efficient, and scalable solutions. Supported by leadership experience as President of the University Election Commission and Vice President of the University Choir, I possess strong communication, teamwork, and problem-solving skills to contribute to the development of quality digital products..

SKILLS

Frontend: HTML5, CSS3, Bootstrap 5, Tailwind CSS, React.js

Backend: PHP (Laravel), Python (Django, Flask), Node.js (Express.js)

Languages: JavaScript, TypeScript, Python, PHP

Tools & Others: Microsoft Office (Word, PowerPoint), Git, MySQL

EDUCATION

Universitas Budi Luhur – Teknik Informatika   **(September 2022 -Januari 2026)**
(*Programming Expert)*
GPA 3.96 / 4.00

Madrasah Aliyah Negeri 19 Jakarta   **(Juli 2019 - Juni 2022)**

WORK EXPERIENCE

Teacher Coding & Robotics (Part-Time)
Codero Education
(5 Desember 2025 – Present)

1. Delivered beginner-to-intermediate programming instruction to elementary, middle, and high school students, adapting lesson complexity to each age group's learning pace and cognitive level.
2. Facilitated visual programming sessions using Scratch and PictoBlox to build foundational logic, algorithmic thinking, and computational reasoning skills in young learners.
3. Instructed game development and interactive simulation design using Roblox Studio, guiding students through core game mechanics and scripting principles.
4. Taught basic electronics and microcontroller programming with Arduino, enabling students to understand hardware-software integration through hands-on circuit experiments.
5. Led robotics workshops using Ukit and Astrobot platforms, covering robot assembly, block-based and code-based programming, and systematic troubleshooting methods.
6. Introduced core web development concepts (HTML, CSS, JavaScript) and Python programming to middle and high school students, emphasizing real-world application and best practices.
7. Mentored students through end-to-end mini project development in coding and robotics, reinforcing skills from ideation to final implementation and presentation.
8. Designed and prepared structured learning materials, practical modules, and assessment rubrics aligned with the internal curriculum framework.
9. Fostered problem-solving skills, logical thinking, and creativity in students through a project-based learning approach, resulting in improved student engagement and learning outcomes.

Web Developer - Independent Study (Studi Independen) Web Developer and Platform (Specialist Education Platform)
Educourse.id
(6 September 2024 –31 December 2024)

1. Engineered a full-featured web-based learning platform utilizing JavaScript, Bootstrap 5, and Django, delivering a seamless and responsive user experience across devices.
2. Designed and implemented scalable frontend and backend components—including user authentication, course management, and content delivery—in accordance with detailed system requirement specifications.
3. Collaborated within a cross-functional agile team to co-develop the 'RPLearn' platform, participating in sprint planning, code reviews, and iterative feature development.
4. Conducted systematic testing and debugging cycles (unit, integration, and user acceptance testing), identifying and resolving critical issues to ensure platform stability.
5. Applied Software Development Lifecycle (SDLC) methodologies throughout the project, ensuring organized planning, development, testing, and deployment phases.
6. Produced comprehensive technical documentation covering system architecture, feature implementation, API endpoints, and final application outcomes for future maintainability.

Project Experience

Expert System Website for Injury Diagnosis – PHP (Laravel)
Bebas Cedera
(May 2025 – June 2025)

1. Architected and implemented a secure, role-based authentication system with dedicated admin and user login flows, enforced through Laravel middleware to protect sensitive routes and data.

2. Developed a self-service forgot password feature with secure token-based email verification, improving system accessibility and reducing administrative password reset overhead.
3. Built distinct, responsive dashboard interfaces for admin and general users, presenting role-specific data, analytics summaries, and navigation tailored to each user type's workflow.
4. Applied server-side pagination across all data listing pages to optimize query performance, reduce load times, and enhance usability when handling large datasets.
5. Created a comprehensive content management module for disease records, symptom definitions, and their relational mappings, enabling administrators to maintain and update the diagnostic knowledge base efficiently.
6. Engineered an automated injury diagnosis engine using the Depth First Search (DFS) algorithm, enabling real-time traversal of symptom-disease relationship trees to deliver accurate and evidence-based diagnostic results.
7. Implemented a diagnosis history management feature, providing users with a chronological log of past consultations for personal health tracking and medical reference purposes..

Product Association Website Using Apriori Method – PHP (Laravel)
Coffe Tege
(June 2025)
1. Implemented a secure user authentication system with session management, ensuring only authorized personnel can access transaction data, analytics modules, and system settings.
2. Designed an intuitive main dashboard providing a high-level overview of key business metrics, complemented by paginated data tables for efficient browsing of large transaction records.
3. Built a streamlined transaction data ingestion feature supporting bulk Excel (XLSX) file uploads, with server-side parsing and validation to accurately import sales data into the relational database.
4. Developed dedicated views for transaction data display and calculation history, enabling business stakeholders to review past analyses and track data input accuracy over time.
5. Implemented a Market Basket Analysis engine using the Apriori algorithm to identify frequent itemsets and generate product association rules, providing actionable insights for cross-selling strategies and menu bundling decisions.
6. Integrated a one-click PDF export feature for association analysis results, allowing stakeholders to generate well-formatted downloadable reports for business presentations and decision-making.

Decision Support System for Best Food Menu (SMART) - PHP (Laravel)
Posyandu Remaja Mawar
(April 2025 –May 2025)
1. Implemented a secure login system with session-based authentication, ensuring only authorized nutritional staff can access and modify menu evaluation data and system configurations.
2. Developed a centralized dashboard with clear data visualization and applied consistent server-side pagination across all data listing views for improved readability and navigation efficiency.
3. Built a flexible criteria and weight management module, enabling administrators to configure evaluation parameters and importance weights based on nutritional guidelines and program priorities.
4. Designed an alternative food menu management interface allowing health workers to input, edit, and remove candidate menu options that are subject to the decision-making process.
5. Implemented an automated ranking and scoring engine using the Simple Multi-Attribute Rating Technique (SMART) method, enabling objective, criteria-weighted evaluation of candidate food

menus.

6. Added a calculation history log and a one-click PDF export feature for ranked results, supporting transparency, auditability, and easy reporting to community health program stakeholders.

Mining Product Sales Prediction Website – Python (Django)
PT Central Pacific Development
(December 2024 –February 2025)

1. Developed a secure web-based login and dashboard system, providing authorized users with an interactive interface to upload, review, and manage historical Excel-based sales datasets.
2. Implemented full CRUD (Create, Read, Update, Delete) functionality for Excel data ingestion, enabling systematic parsing, validation, and structured storage of sales records into the relational database.
3. Engineered a data aggregation module that automatically groups and summarizes total sales figures by month, producing clean time-series datasets ready for downstream predictive modeling.
4. Built and integrated a sales prediction engine using a Backpropagation Artificial Neural Network (ANN), trained on historical sales data to generate accurate forward-looking forecasts.
5. Developed interactive data visualization features displaying real-time training loss plots and comparative charts overlaying actual versus predicted sales values, enabling model performance evaluation at a glance.

Online Library Website – PHP (Laravel)
SMK Arif Rahman Hakim
(September 2024 – October 2024)

1. Architected a multi-role authentication system supporting distinct admin and user accounts, each with dedicated access controls, session management, and database-driven role verification.
2. Implemented forgot password functionality, global search, and server-side pagination across all data modules, significantly enhancing system usability and user self-service capabilities.
3. Built a comprehensive admin management suite covering user accounts, book catalog entries, and category taxonomies streamlining daily library operations and reducing administrative workload.
4. Developed a full borrowing lifecycle management system including borrow request approval/rejection workflows, automated fine calculation based on overdue duration, and secure fine payment receipt upload functionality.
5. Integrated an in-browser book reading experience using the HTML5 Canvas API, enabling users to read digital books directly within the web application without requiring external software or file downloads.
6. Delivered user-facing features including advanced book search, borrowing request submission, and personal profile editing, ensuring a smooth and self-sufficient experience for library members.

VOLUNTEER & LEADERSHIP EXPERIENCE

President of Gema Luhur Choir - Organization
Universitas Budi Luhur
(March 2024 – May 2025)

1. Formulated and executed a comprehensive organizational work program for the full term, setting strategic priorities, defining key milestones, and overseeing performance across all choir

activities.

2. Coordinated rehearsal scheduling, sheet music distribution, and end-to-end performance planning, ensuring consistent preparation and a high-quality standard for every public appearance.
3. Provided vocal coaching support and guided the technical development of choir members, collaborating closely with vocal trainers to elevate the ensemble's overall musical performance.
4. Facilitated regular organizational meetings, mediated internal conflicts, and managed external stakeholder communications to maintain a cohesive, productive, and professional organizational culture.

President of Election Commission (KPU) – Organization
Universitas Budi Luhur
(December 2023 – February 2024)
1. Established and enforced a structured electoral timeline, overseeing candidate registration procedures and eligibility verification to ensure compliance with university democratic principles.
2. Guaranteed the integrity of the election process by strictly upholding Luber Jurdil principles ensuring the election was direct, universal, free, confidential, honest, and fair throughout all stages.
3. Supervised and coordinated a team of 35 coordinators and members, delegating responsibilities, monitoring task execution, and maintaining organizational discipline and electoral impartiality.
4. Managed the complete election day operation—from document verification and polling station oversight to transparent result tabulation and official announcement to the university community.
5. •Investigated and resolved all electoral disputes and procedural conflicts in a fair, documented, and transparent manner, upholding the credibility of the institution's democratic process.

Vice President of Gema Luhur Choir - Organization
Universitas Budi Luhur
(July 2024 – March 2024)
1. Supported the Chairperson across all organizational duties, serving as a reliable second-in-command and ensuring continuity of operations during absences or high-demand periods.
2. Assisted in curating and compiling the choir's song repertoire, evaluating musical selections based on difficulty level, performance context, and the ensemble's vocal capabilities.
3. Coordinated rehearsal scheduling and disseminated performance-related information to all choir members, ensuring clear communication and high attendance and punctuality across sessions.
4. Contributed to vocal training sessions and assisted in organizing performance logistics, helping maintain the ensemble's technical standard and readiness for public appearances.

Blueleader of Universitas Budi Luhur – Volunteer
Universitas Budi Luhur
(18 September 2024 – 21 September 2024)
1. Organized and led a cohort of 63 new students throughout all orientation agenda sessions, providing clear guidance and maintaining an orderly, inclusive, and welcoming environment.
2. Served as the primary point of contact for student inquiries, proactively answering questions about orientation activities, academic programs, and campus life.

Class Officer of Orientation Universitas Budi Luhur – Volunteer
Universitas Budi Luhur
(18 September 2023 – 20 September 2023)
1. Organized and led 40 new students throughout all orientation activities.
2. Guided students during the Inauguration performance and helped with carnival costume preparation.

Veterinary Event Admin of Universitas Budi Luhur - Sukarelawan
Universitas Budi Luhur
(11 March 2023)
1. Organized and led 40 new students throughout all orientation activities.
2. Guided students during the Inauguration performance and helped with carnival costume preparation.

CERTIFICATIONS
1. **Certificate of Basic Computer Algorithm Competency**
2. **Certificate – Workshop: Learn About SQL Map on Kali Linux for Database Security**
3. **Certificate – Web Developer and Platform (Specialist Education Platform) – Educourse.id**
4. **Certificate of Python Course Completion**
5. **AI Productivity and AI API Integration for Developers – Hacktiv8**