WILLYANSYAH

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EDUCATION

TELKOM UNIVERSITY **Indonesia**
Bachelor of Information Systems *2023 – Present*

- Current GPA: 3.32/4.00
- Relevant Coursework: Web Development, Mobile Development, System Analysis, Database Management, Data Analytics

SMK TUNAS HARAPAN **Indonesia**
Computer and Network Engineering (TKJ) *2020 – 2023*

WORK EXPERIENCE

TELKOM UNIVERSITY **Indonesia**
Teaching Assistant – Business Process Modeling *Nov – Dec 2025*

- Delivered instructional sessions on Visual Paradigm to support students in modeling business processes using BPMN/UML notation.
- Provided course materials and guided students through practical modeling exercises and assignments.
- Assessed and graded student assignments and practical exercises based on modeling accuracy and completeness.

PT. BINTANG ANGKASA RAYA INDONESIA **Indonesia**
Intern *2021*

- Managed and organized Instagram content, scheduling, audience engagement, and performance analysis to optimize digital presence.
- Assisted with financial reporting and transaction documentation to streamline office administrative workflows.

PROJECTS

SIPES – PUBLIC COMPLAINT & WASTE MANAGEMENT SYSTEM **Laravel, PHP, MySQL, Leaflet, Bootstrap**
Full-Stack Developer *Academic Project*

- Developed an urban waste reporting and management web system equipped with a comprehensive tracking and monitoring dashboard.
- Integrated interactive map visualizations using Leaflet to pinpoint and track precise public complaint locations.
- Implemented secure, role-based multi-user management and reporting filters using Laravel and MySQL.

WANT TO GO – TRAVEL PLANNING MOBILE APPLICATION **Flutter, Supabase, OpenStreetMap, Nominatim API**
Mobile Developer *Academic Project*

- Developed a cross-platform mobile application utilizing Flutter and Supabase for comprehensive travel and destination planning.
- Integrated OpenStreetMap and Nominatim API to enable seamless location searching, geolocation tracking, and interactive mapping.
- Implemented real-time activity schedulers, real-time budgeting modules, and integrated in-app group chats for synchronized trip planning.

SIHADIR – DIGITAL SCHOOL ATTENDANCE SYSTEM **Laravel, PHP, MySQL, JavaScript**
Full-Stack Developer *Academic Project*

- Designed and built a web-based school attendance system featuring QR Code scanning to ensure highly accurate and efficient tracking.
- Developed modules for real-time dashboard analytics, comprehensive student data administration, and multi-role authentications.
- Implemented automated data compilation features allowing seamless generation of monthly Excel exports and PDF reporting.

ER WEDDING – WEDDING MARKETPLACE PLATFORM **Laravel, PHP, MySQL, Blade, CSS**

Web Developer *Personal Project*

- Developed a comprehensive wedding marketplace platform enabling users to search vendors and explore custom wedding packages.
- Built structured database relationships in MySQL to manage vendor catalogs, pricing structures, and order scheduling.
- Crafted responsive and polished web interfaces using Laravel Blade templates and modular CSS architectures.

BOOK FINDER – BOOK COMMUNITY PLATFORM **React, Laravel, PHP, MySQL**

Front-End Developer *Personal Project*

- Developed a community platform for book enthusiasts enabling seamless discovery, reviews, and custom reading list curations.
- Integrated external Book APIs alongside a Laravel-powered backend to aggregate rich metadata, reviews, and detailed search suggestions.
- Built dynamic, high-performance UI components using React to handle search filters and user activity feeds.

DIABETES PREDICTION & ANALYTICS DASHBOARD **Python, Scikit-learn, Pandas, NumPy, Streamlit, Matplotlib**

Machine Learning *Personal Project*

- Developed an end-to-end machine learning application to predict diabetes risk using patient health datasets.
- Performed data preprocessing, exploratory data analysis (EDA), feature engineering, and model evaluation to improve prediction performance.
- Built an interactive Streamlit dashboard enabling users to input health indicators and receive real-time prediction results with data visualizations.
- Evaluated multiple classification models using Accuracy, Precision, Recall, and F1-Score to identify the best-performing model.

GRAB APP REVIEW SENTIMENT ANALYSIS **Python, Streamlit, FastAPI, Scikit-learn, Gensim, Word2Vec, Pandas, Plotly**

Machine Learning *Personal Project*

- Developed an end-to-end NLP application to analyze more than 15,000 Grab app reviews using Word2Vec feature representation and machine learning classification.
- Compared seven classification algorithms including Logistic Regression, Support Vector Machine (SVM), K-Nearest Neighbor (KNN), Naive Bayes, Random Forest, Decision Tree, and Neural Network using Accuracy, Precision, Recall, and F1-Score.
- Built an interactive Streamlit dashboard for sentiment trends, aspect-based analysis, preprocessing visualization, model performance comparison, and data exploration.
- Implemented a FastAPI-based sentiment inference and semantic review search endpoint to retrieve similar user reviews and summarize sentiment distribution.

ADDITIONAL

Technical Skills:	Advanced in PHP, JavaScript, TypeScript, HTML/CSS. Proficient in Laravel, React, Flutter, MySQL, Supabase, Cisco Packet Tracer, MikroTik, Git, GitHub, Selenium, Microsoft Office.
Certifications:	IT Specialist: Data Analytics (Certiport & Pearson VUE), BNSP Computer Network Technician Certification.