

# MARIA RACHEL KESYA MAKARENA

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Pancoran Mas, Kota Depok

A high-achieving 5th-semester Information Systems student, passionate about both front-end development and business analysis. Experienced in developing web applications with React.js, Laravel, Tailwind, and Bootstrap, and skilled in practical business process management using accounting systems like Accurate and MYOB from a one- year professional role. Strong analytical and research capabilities are evidenced by being a GEMASTIK 2025 FINALIST and authoring multiple SINTA-accredited scientific publications. Enthusiastic about applying a unique blend of technical skills and business insight to deliver high-impact technological solutions.

## EDUCATION

Universitas Pembangunan Jaya - Tangerang Selatan, Indonesia

Aug 2023 - Aug 2027 (Expected)

Undergraduate Information Systems, 3.75/4.00

## PROFESSIONAL SKILLS

- **Programming & Frameworks:** React.js, SQL, Python, PHP, HTML, CSS, JavaScript, Tailwind, Bootstrap, Laravel.
- **Database:** HeidiSQL, PHPMyAdmin, ER Diagram Design
- **Tools:** Github, Figma, Canva, Visual Studio, Odoo, Microsoft Office (Word, Excel, PowerPoint), Accurate, MYOB

## PROFESSIONAL EXPERIENCES

BENGKEL MOBIL DEPO - WEBSITE INFORMATION SYSTEM Tangerang Selatan, Indonesia

Jul 2025 - Aug 2025

Front End Developer - Freelance

- Developed the complete front-end for the workshop's website using a modern stack of React.js and Tailwind CSS.
- Focused on rapid development and creating a fully responsive design to serve customers.

GKI MALEO RAYA - CONGREGATION INFORMATION SYSTEM – Tangerang Selatan, Indonesia

Jun 2025 - Aug 2025

Front End Developer - Volunteer

- Developed a comprehensive information system to manage the church's congregation data.
- Designed and built the user dashboard and front-end interface using Bootstrap for a responsive layout
- Engineered the back-end logic and database management system using PHP and the Laravel framework
- **Technologies Used:** PHP, Laravel, Bootstrap, MySQL.

PAUD KHAIRANI – WEBSITE INFORMATION SYSTEM – Tangerang Selatan, Indonesia

Nov 2024 - Jun 2025

Front End Developer - Freelance

- Responsible for the end-to-end front-end development of the school's official website
- Designed and implemented the entire user interface, including the main dashboard and interactive elements, to create a responsive and user-friendly experience
- **Technologies Used:** React.js, Tailwind CSS

PT. GLORY OFFSET PRESS - Jakarta, Indonesia

May 2022 - Jul 2023

Admin Support Keuangan & Purchasing - Staff

- Purchase production needs (Materials - Equipment).
- Ensure that the goods sent match the order
- Carrying out stock taking of production goods every week
- Input data into the Accurate System
- Conduct stock taking reports every month

## ACHIEVEMENTS & AWARDS

NATIONAL FINALIST, GEMASTIK XVIII (SMART CITY) – Telkom University, Bandung

Jul 2025 - Okt 2025

National Student Competition in Information and Communication Technology - Team Leader

- Led the conceptual design of "TraceCam," a smart public safety platform to accelerate the capture of wanted fugitives in Bali.
- Architected a Big Data and Deep Learning solution to upgrade 1,200+ existing CCTVs into a real-time, proactive fugitive tracking network.
- Analyzed business process transformations (As-Is vs. To-Be), mapped key stakeholders (Police, Pecalang), and developed a compliance framework for data privacy (PDP) and electronic transaction (ITE) laws.
- Developed full functional specifications, including UML diagrams (Use Case, Activity), application workflows, and created UI/UX mockups for mobile and desktop platforms.

**BRONZE AWARD, PEDAS NATIONAL DATA COMPETITION – UIN, Tangerang Selatan**  
*Awarded in the Preliminary Round of the National Data Festival (PEDAS) organized by APTIKOM – Team Leader*

- Led a team to develop a time-series forecasting model predicting GAIKINDO's national car sales for August 2025.
- Implemented advanced models (SARIMAX, AutoARIMA) using the Python Darts library to effectively analyze and predict complex sales trends.
- Validated the model's precision using the SMAPE evaluation metric, ensuring high forecast accuracy and technical robustness.

Aug 2025 - Sept 2025

**ACADEMIC ACHIEVEMENT AWARD – Universitas Pembangunan Jaya, Tangerang Selatan**  
*Awarded by Universitas Pembangunan Jaya, in recognition of outstanding academic performance.*

Sept 2025

**UNIVERSITY BRAND MODEL – Universitas Pembangunan Jaya, Tangerang Selatan**  
*Featured as the face of the university's 2025 official social media campaigns.*

2025

**1ST PLACE, INFORMATION SYSTEMS QUIZ COMPETITION – Universitas Pembangunan Jaya, Tangerang Selatan**  
*Hosted by the Information Systems Department of Universitas Pembangunan Jaya.*

Sep 2024

**STUDENT AMBASSADOR – Universitas Pembangunan Jaya, Tangerang Selatan**  
*Telemarketing - Focus*

- Responsible for direct telemarketing engagement with prospective students to support university recruitment goals.
- Provided key information on academic programs and successfully drove registrations for admissions events.

2023 - 2024

ORGANISATIONAL EXPERIENCES

**GIDHUB 2024 & 2025– Universitas Pembangunan Jaya, Indonesia**  
*Staff of the Event Divison*

- Responsible for creating detailed event schedules (rundowns) to manage program flow and timing effectively.
- Prepared and finalized official Memorandums of Understanding (MoU) to establish formal agreements with external partners and vendors.
- Ensured clear communication and coordination across teams regarding event logistics and timelines.

May 2024 - Aug 2025

**PROGRAT 2025 – Universitas Pembangunan Jaya, Indonesia**  
*Treasurer*

- Oversaw all financial transactions, including recording income and managing expenses for the event.
- Conducted routine financial reporting to track budget performance and ensure fiscal responsibility.
- Managed the event's cash flow, from initial budget allocation to final financial reconciliation.

Jan 2025 - Sept 2025

PUBLICATIONS & CONFERENCE PAPERS

**IMPLEMENTASI CONVOLUTIONAL NEURAL NETWORK DENGAN SMOTE+ENN UNTUK KLASIFIKASI KUALITAS UDARA BERDASARKAN DATA DERET WAKTU POLUTAN**  
*Published in BITS, a SINTA 3 indexed national journal*

Sept 2025

**APLIKASI JAYA EVENTS UNTUK MENGELOLA ACARA & INFORMASI KAMPUS**  
*Published in REMIK, a SINTA 5 indexed national journal*

Jan 2025

**PELATIHAN GOOGLE DOCS UNTUK MENINGKATKAN KETERAMPILAN DIGITAL GURU DI PAUD KHAIRANI, PAMULANG, TANGERANG SELATAN**  
*Published in the proceedings of the National Seminar SEMBADHA*

Dec 2024

**PELATIHAN KOMPETENSI GURU PAUD KHAIRANI TANGERANG SELATAN DALAM PEMBUATAN MATERI PEMBELAJARAN INTERAKTIF DENGAN GOOGLE SLIDES**  
*Published in Jurnal iKRAITH-ABDIMAS*

Okt 2024