CARLOS MICHAEL MARPAUNG

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West Jakarta, DKI Jakarta

Software Engineer with experience in backend development, SQL-based data processing, and full-stack application development. Strong foundation in building scalable systems using React, Django, Laravel, and relational databases. Experienced in handling data-intensive systems in the banking sector, collaborating in agile teams, and delivering reliable software solutions with clean, maintainable code.

Work Experiences

PT Bank Oke Indonesia Tbk (OK Bank)   Aug 2025 - Present

SQL Developer
- Developed and maintained complex SQL Server stored procedures using CTE, window functions, and multi-table joins to generate regulatory and internal reports including Antasena, SLIK, LPS, and Basel III.
- Built and enhanced ETL pipelines for daily and monthly reporting processes, improving data processing efficiency and reducing manual intervention.
- Analyzed and validated large banking datasets to ensure data accuracy and consistency in compliance with OJK and BI regulations.
- Troubleshot query performance issues and data discrepancies across reporting tables, improving overall report reliability.
- Documented stored procedure logic, table mappings, and reporting flows to support system maintainability and knowledge sharing within the team.

PT Dimensi Kreasi Nusantara   Aug 2024 - Dec 2024

Software Engineer (Internship)
- Developed core features for the Dots Mobile Application, a mobile financial platform similar to mobile banking, using React Native.
- Built backend services with Django REST Framework and PostgreSQL to handle user authentication, savings deposits, withdrawals, and loan management workflows.
- Implemented RESTful APIs for transaction processing, loan due-date tracking, and user account management with proper validation and error handling.
- Debugged and resolved frontend–backend integration issues to ensure reliable financial transaction flows and application stability.

Developed Workshop Management *(Freelance / Project-Based)*   Dec 2024 - Mar 2025

Full-Stack Developer
- Developed a web-based Workshop Management System using Laravel, Livewire, and Tailwind CSS for Batik Tegalan.
- Implemented backend modules for inventory management, sales transactions (POS), customer reservations, and educational content management.
- Designed relational database schemas and built CRUD operations to ensure data consistency across transaction workflows.
- Built admin dashboards to manage products, orders, and customer data, supporting daily operational activities.

Developed E-Commerce Management System *(Freelance / Project-Based)*   May 2024 - Sep 2024

Full-Stack Developer
- Developed a full-stack e-commerce web application using C# (.NET) and SQL Server with separate admin and user roles.
- Implemented product management, customer accounts, and order processing workflows.
- Designed relational database schemas and built stored procedures to handle transactions and reporting.
- Built admin dashboards to manage inventory, orders, and user data.

Other Projects

Book Recommendation System - RNN (LSTM-Based) — *Academic Project*   Dec 2024 - Jun 2025

Full-Stack Developer
- Built a book recommendation system using RNN (LSTM) to generate personalized recommendations based on user reading history.
- Developed a full-stack application with React (frontend) and Django REST Framework (backend), using Supabase as the database layer.
- Collected and processed 10,000+ book records from the Google Books API and performed data preprocessing and model training using Python (Jupyter Notebook).

BAAK Management Mobile App — *Academic Project*   Dec 2024 - Jun 2025

Full-Stack Developer
- Developed a mobile application to manage student permission workflows such as leave requests, overnight permits, and approval tracking for academic administration.
- Built the application using Flutter (Dart) with role-based access for students and administrators.
- Implemented features for submission, status monitoring, and history tracking of student requests to streamline administrative processes.

Education Level

Institut Teknologi Del   Sep 2022 - Jul 2025
Diploma 3 in Information Technology, 3.50/4.00

- Awarded the Pelangi Scholarship – PT Toba Pulp Lestari (2022–2025), a full scholarship covering tuition, dormitory, and living expenses, granted to selected students based on academic excellence and financial need.

Organisational Experience

Himatif (Himpunan Mahasiswa Teknologi Informasi)   Aug 2023 - Jul 2024
Vice Chairman

Del English Club   Oct 2022 - Sep 2023
Member

Awards & Certifications

Coursera   Mar 2025
Google Advanced Data Analytics

Microsoft   Mar 2025
elevAIte with Dicoding Program

Digital Talent Scholarship   Aug 2023
Junior Web Developer at the Vocational School Graduate Academy Program

YCAB Foundation   Jul 2023
Career Preparation of Youth Digital Acceleration Program

Technical Skills

Programming & Frameworks

- JavaScript, Python, PHP, C#, Dart

- React, React Native, Laravel, Django, Flutter, .NET

Database & Data

- SQL Server, MySQL, PostgreSQL

- Stored Procedures, CTE, Window Functions, Query Optimization

- ETL Processes, Data Validation, Relational Schema Design

Tools & Practices

- Git, Postman

- RESTful API Development