

# Gerico Mangali

Malabon  
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## SKILL & KNOWLEDGE

HTML5, CSS3, JavaScript, React, TypeScript, Tailwind CSS, Bootstrap, Node.js, Express.js, PHP, CodeIgniter 3, MySQL, Firebase Cloud, RESTful APIs, HubSpot CRM API, Talend API Tester, Postman, HubSpot CRM Integration, AWS Lightsail, AWS EC2, AWS S3, AWS Fleet Manager, Git & GitHub, Jenkins for Deployment, Lumos Familiarity, OKTA Familiarity, Render Cloud, Agile, Confluence, API Documentation.

## SOFT SKILL

Problem-Solving, Collaboration & Teamwork, Communication, Adaptability, Attention to Detail, Leadership, Time Management, Customer Focus, Project Management, Critical Thinking, Creativity, Conflict Resolution, Decision Making.

## WORK EXPERIENCE

Freelance Full-Stack Engineer

October 2024 to Current

### Parking Management System

- Developed a responsive, user-friendly interface using JavaScript, HTML, Tailwind CSS, , ensuring an intuitive experience for vehicle registration and QR code generation.
- Integrated Firebase Firestore to dynamically retrieve and display driver data, enabling real-time updates and efficient management of driver information directly from the frontend.
- Implemented QR code generation on the frontend, automatically pulling driver data from Firebase to create unique QR codes for vehicle identification, improving the efficiency of the registration process.

Freelance Full-Stack Engineer

October 2024 to Current

### QR Code Scanner

- Designed and implemented a QR code scanner system that acts as the intermediary between the IntelliPark web platform and Arduino-controlled gate operations.
- Developed middleware to enable communication between the scanner and Arduino via a serial USB connection, facilitating real-time gate control.
- Integrated the scanner frontend with Firestore to validate QR code data against driver registration records before initiating vehicle entry processes.
- Engineered a robust workflow where validated data is sent from the scanner frontend to a REST API, triggering Firestore updates to record vehicle entries securely.
- Enabled seamless interaction between the frontend and middleware by implementing a local API, ensuring reliable data transmission to Arduino for gate control commands.
- Conducted rigorous testing to ensure system accuracy, validating data integrity across Firestore, REST APIs, middleware, and the Arduino system.

Freelance Full-Stack Engineer

October 2024 to Current

### Backend REST API Web Service

- Developed a multithreaded backend web service using Express.js to handle real-time HTTP requests for vehicle data management and QR code processing.
- Implemented worker threads to efficiently manage backend tasks such as database interactions, with Firebase Firestore for real-time data updates, using Firestore snapshots and Firebase functions to handle dynamic data retrieval and manipulation.
- Designed and implemented RESTful APIs to enable seamless communication between the frontend, backend, and external systems like QR code scanners.

Associate Software Engineer

November 2022 to Current

### SEEK Asia

BGC Taguig

- Led the migration of two legacy systems to a unified HubSpot CRM, managing everything from workflow migration to data security and feature continuity. Conducted API webhook testing, User Acceptance Testing (UAT), and system validation to ensure alignment with business requirements and stakeholder needs.
- Managed four codebases across two legacy systems and two website platforms, each with different architectures, ensuring ongoing support, smooth operation, and timely feature releases, reducing system downtimes and addressing performance issues.
- Deployed updates to staging and production environments using Jenkins and AWS, optimizing deployment processes and minimizing downtime across all systems. Managed backend systems through AWS Fleet Manager and performed backend data fixes to resolve system issues.
- Provided technical support to end-users, quickly troubleshooting and resolving database issues via AWS Fleet Manager, ensuring system stability, and generating SQL queries for accurate and timely reporting for marketing and sales.
- Ensured data security during HubSpot CRM migration, implementing security protocols and safeguarding sensitive data during integration, while documenting system architecture, API guides, and best practices for future scalability.
- Utilized Git for version control in Agile Scrum teams, improving team collaboration and project delivery by tracking code changes and maintaining high-quality standards.
- Created and maintained comprehensive technical documentation, enhancing knowledge sharing, maintainability, and ensuring smooth onboarding for new developers and stakeholders.
- Collaborated with project managers to estimate timelines, resources, and migration planning, successfully leading the project to completion within X% of budget and time, ensuring efficient execution and alignment with business goals.

## EDUCATION

City of Malabon University (CMU)

08/2022

Bachelor of Science: Information and Technology

Malabon, Philippines

- Dean's Lister Academic Achievement Award