MARCO FERNANDIO

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Personal Information

Software engineering graduate with hands-on experience in fullstack development using React, Express, and MongoDB. Completed freelance PoS systems for SMEs and developed university internal systems during a 1-year internship and part-time role. Participated in *ETHGlobal* hackathons in Singapore and Bangkok. Passionate about Web3 and AI, with strong fundamentals in JavaScript, and Python.

- **Nationality**   : Indonesian
- **Gender**   : Male

Technical Skills

- **General**: JavaScript, Python, TypeScript, SQL, RESTful APIs, GraphQL, Docker.
- **Web Development**: React, Next.js, AngularTS, Express, FastAPI, Django, MongoDB.
- **Blockchain Technologies**: Hardhat, Viem, Wagmi, The Graph, 1inch, Uniswap, Phala Network.
- **AI Engineering**: MCP, OpenAI SDK, Google ADK, RAG, LangChain.
- **Others**: Technical communication, requirements gathering, and requirements validation.

Professional Experience

Forklift Sparepart Warehouse Manager (Jan 2025 – Present) – Multi Forklift, Medan, Indonesia.

- Coordinated with suppliers and customers for timely deliveries and order fulfillment.
- Managed forklift spare parts inventory, ensuring optimal stock levels using software.
- Learned the intricacies of a forklift dealership business, such as rentals, repairs, and operations.

Research and Development Member (Sep 2023 – Sep 2024) – Asia Pacific University, Malaysia

- Developed and maintained internal tools for campus systems.
- Assisted in communicating with clients and stakeholders to ensure comprehensive requirement specifications.
- Reduced manual work by 20% for university intake planning and scheduling.

Freelance Web Developer (Jan 2021 – Sep 2022) – Multiple SMEs, Medan, Indonesia.

- Built landing pages and custom point-of-sale web applications using React and Node.js.
- Delivered 5 projects to retailers, improving their transaction processing and inventory tracking.
- Applied analytical skills to understand clients' challenges, customizing web app solutions.

Languages

- **Full Professional Proficiency**: Indonesian, English, Hokkien, Malay.
- **Limited Working Proficiency**: Mandarin, Cantonese.

Software Projects

Custom Inventory Management System [*January 2025 – Present*]

- Developed a custom inventory management system for the forklift dealership business which allows staffs to track and manage thousands of forklift spareparts.
- Automated the creation of Product and Stock Orders, and facilitated product checks.
- **Impact**: Reduced significant amount of human labour by manual checks
- Utilized: NextJS, Vercel, MongoDB, MCP, and tabular RAG.

Simplifying Transactions Using ERC-4337 Smart Wallet and *ENS* [*ETHGlobal Bangkok, Nov. 2024*]

- Developed a webapp that enables the simplification of transaction using ENS URLs for new web3 users as part of ETHGlobal Bangkok hackathon
- Leveraged *Privy*'s built-in ERC-4337 smart wallet to sponsor users' gas fee through Biconomy paymaster.
- Integrated *ENS* domain resolver as a link for payment abstraction.
- **Impact**: Gained a deep understanding of ERC-4337 AA, gas fee sponsorship mechanisms, Web3 frontend development, and especially the need for a simplified transaction mechanism in Web3.
- Utilized: *Privy Smart Wallet*, *ENS Durin*, Wagmi, Viem, *Biconomy*, Solidity, *Scroll* L2, *BASE* L2.

Centralized Intake Calendar Planner System [*June 2024 – September 2024*]

- Responsible for developing the UI/UX for an internal tool used by the whole university.
- Developed a robust and user-friendly UI/UX design using Figma through extensive requirements gathering processes, and Outsystems for development.
- Impact: Reduced manual labour by around 20% for intake planning and increased data accuracy.
- Utilized: Angular, FastAPI, SQLServer, Figma.

Integrated Information System for Asia Pacific University [*October 2023 – January 2024*]

- Developed a robust and user-friendly UI/UX designs and prototypes using Figma through extensive requirements gathering processes, and Outsystems for development
- **Impact**: Learned the intricacies of requirements gathering, effective communications with key stakeholders, and requirements testing.
- Utilized: Figma, Outsystems, Requirements Gathering, Jira, Confluence.

Content Automation Software for Real Estate Agents and Agencies [*February 2023 – June 2023*]

- Developed a web-based software for real estate agents to automate their social media content in order to improve marketing efficiency.
- Sold to over 5 agents and agencies.
- **Impact**: Contributed to saving the business over $100 per week in operational costs.
- Utilized: ReactJS, Netlify, Express.