BOE KAUNG KYAW

Full-Stack Software Engineer | C# / .NET, Python (FastAPI), PostgreSQL, React.js, AI Agents / LLMs

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SUMMARY

Full-Stack Software Engineer with 3.5+ years of experience owning product features from database schema and REST API to the React.js/TypeScript user interface. Strong in C#, ASP.NET Core, Python (FastAPI), PostgreSQL, and multi-tenant SaaS architecture. Built a villa rental and operations platform end-to-end for a live business, including an append-only financial ledger, row-level multi-tenant access control, and Keycloak authentication. Comfortable in early-stage, fast-moving teams, working directly with product and business stakeholders.

TECHNICAL SKILLS

- **Programming Languages:** C# (.NET), Python, Go, TypeScript, JavaScript
- **Backend Frameworks:** ASP.NET Core, ASP.NET MVC, ASP.NET Web API, Entity Framework Core, FastAPI, Echo (Go)
- **Frontend:** React.js, Next.js, Astro, HTML5, CSS3
- **Databases:** PostgreSQL, Microsoft SQL Server, MongoDB, Redis
- **Architecture:** REST APIs, gRPC, Microservices, Multi-Tenant SaaS, RabbitMQ, Centrifugo
- **Security & Identity:** Keycloak, OAuth2, OpenID Connect (OIDC), Role-Based Access Control (RBAC), Row-Level Security
- **Cloud & DevOps:** AWS, Docker, GitHub Actions, CI/CD, SonarQube
- **AI / LLM:** AI Agents, LLM Integration, LangChain, LangGraph, RAG, Multi-Agent Systems, Generative UI (Tambo), Document Embeddings, AI Workflow Automation
- **Tools & Practices:** Git, Automated Testing, Code Review

WORK EXPERIENCE

Full-Stack Software Engineer — PT General Magick Indonesia | Jun 2024 – Nov 2026

Remote · Full-time

Primary engineer on a villa rental and operations platform, and contributor to an AI workspace product. Owned features from idea to production, working directly with product and business stakeholders to define requirements and prioritize work.

Magickal Experiences Bali — Villa Rental & Operations Platform

- Served as primary engineer, architecting and building the platform end-to-end and taking features from idea to production independently, including WhatsApp and email notification integrations.
- Delivered the public booking site, guest portal, vendor portal, agent portal, and admin dashboard, used daily by guests, vendors, and staff.
- Built “Key,” an AI chat agent with admin and guest sides: admins create bookings and check room availability through chat (money-related actions require explicit admin approval) using Tambo for generative UI, while guests get quick answers and guided help.
- Designed the PostgreSQL schema and built an append-only financial ledger that keeps commission calculations accurate over time and reconciles refunds correctly under concurrent requests.
- Designed a multi-tenant, multi-role access system (admin, staff, vendor, agent, guest) with row-level data scoping, using Keycloak for authentication and RBAC.
- Improved API performance with Redis caching and wrote automated tests across both frontend and backend repositories.

Technologies:

- Programming Languages: Python, TypeScript
- Backend: FastAPI, REST APIs
- Frontend: React.js
- Database: PostgreSQL, Redis
- Auth & Security: Keycloak, RBAC, Row-Level Security
- AI: AI Agents, Generative UI (Tambo)
- Integrations: WhatsApp, Email

Magick Workforce — AI Workspace & Knowledge Base

- Contributed to an AI workspace and knowledge-base tool for legal, HR, and employee-domain teams, combining a chat interface with a knowledge base to guide users through complex legal document workflows.
- Built the document processing pipeline, the embedding process on MongoDB, and document versioning.
- Built a Go-based gRPC AI service for intelligent task execution and workflow automation.
- Contributed backend services, APIs, and integrations that power AI agents, chat experiences, and automated workflows, including multi-agent designs built on LangChain and LangGraph.

Technologies:

- Programming Languages: Go, Python
- Backend: FastAPI, REST APIs, gRPC
- Database: PostgreSQL, MongoDB (document & vector store)
- AI: LangChain, LangGraph, LLM Integration, AI Agents, Multi-Agent Systems, RAG, Document Embeddings, AI Workflow Automation
- Auth & Messaging: Keycloak, RabbitMQ, Centrifugo (real-time messaging)

Internal HRIS Platform — Attendance & Leave Web App

- Developed the company-wide internal HRIS platform, a React.js web app for attendance and leave, built as an Employee Self-Service (ESS) app with a separate HR admin view and multi-tenant data isolation.
- Built the attendance service, including location-based check-in using the Google Geolocation API.
- Built the leave service for the platform's employee leave management.

Technologies:

- Programming Languages: Python
- Backend: FastAPI
- Frontend: React.js
- Database: MongoDB
- Auth & Security: Keycloak
- Architecture: Multi-Tenant SaaS

- Integrations: Google Geolocation API

Full-Stack Software Engineer (Junior) — KBZ Bank | May 2023 – May 2024

SmarterHR — New Version of HRMS

- Contributed to the modernization and migration of a legacy HRIS platform serving 13,000+ employees, building backend services in C#, ASP.NET Core, and Entity Framework Core, and frontend features in React.js.
- Designed and built a location-based attendance feature end-to-end (database schema, API, and UI), used across multiple company sites.
- Contributed to a cloud-native microservices architecture on AWS (ECS, Lambda, Cognito, SQS, SNS), focusing on scalability, maintainability, and reliable service integration.
- Owned multiple features from requirements through implementation, testing, and production release, working with cross-functional teams in a large enterprise environment.
- Worked within a clean architecture structure to keep services modular, maintainable, and testable, following team coding standards and best practices.

Technologies:

- Programming Languages: C#
- Frameworks: ASP.NET Core, Entity Framework Core, React.js
- Cloud Services: AWS (Amazon ECS, Lambda, Cognito, SQS, SNS)
- Cloud Architecture: Cloud-native application with microservices
- Database: RDBMS, AWS DynamoDB

Software Developer Intern — KBZ Bank | Feb 2023 – May 2023

SmartHR — Human Resource Management System

- Supported senior engineers in designing and implementing backend APIs, applying clean code and API design best practices.
- Participated in code reviews and agile sprints in a large-scale banking environment.
- Helped maintain and troubleshoot SmartHR, a comprehensive HRMS tailored for KBZ Bank, keeping the system running smoothly.

- Supported development of features across employee services, attendance tracking, leave management, overtime management, and payroll services, in line with KBZ Bank's needs.
- Contributed to frontend development in React.js alongside backend work, supporting features across the full stack.

Technologies:

- Programming Languages: C#
- Frameworks: ASP.NET MVC, ASP.NET Web API, React.js
- Database: Microsoft SQL Server (MSSQL)

EDUCATION

BSc (Hons) Business Computing and Information Systems, First Class Honours

University of Central Lancashire | Mar 2022 – Mar 2023

Pearson BTEC Level 5 Higher National Diploma

Youth International College