

ARMEL BARRERA ARDAEL

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PROFESSIONAL SUMMARY

Experienced Software Development Engineer with expertise in full-stack development, AI/ML prototypes, and software architecture. Proficient in designing, implementing, testing, and maintaining complex systems. Skilled in agile collaboration, cross-functional teamwork, and delivering scalable, secure software solutions. Passionate about Generative AI and Agentic AI, continuously exploring modern frameworks and AI applications.

TECHNICAL SKILLS

Frontend

React, Next.js, TypeScript, JavaScript, MUI, Tailwind CSS

Backend

ASP.NET Core, C#, REST APIs, Identity Framework, Entity Framework, LINQ
Clean Architecture, Repository Pattern, Dependency Injection, Laravel

Database

PostgreSQL, MySQL, SQL Server, SQLite

AI

Microsoft AI Fundamentals (AI-900), Semantic Kernel (C#), Prompt Engineering, AI Workflow Orchestration, Generative and Agentic AI, LLMs, embeddings, OpenAI SDK, CrewAI

Cloud & DevOps

Azure, Docker, Kubernetes, GitHub Actions, CI/CD pipelines

Mobile Development

Flutter, Dart, Kotlin, Android, Jetpack Compose

Cybersecurity

Malware Analysis, Reverse Engineering, Wireshark, IDA Pro, OllyDbg, x64dbg

Tools & Others

Git, GitHub, GitLab, Bitbucket, Ubuntu/Linux, VirtualBox, VMware

Monitoring Tools

OpenTelemetry, Prometheus(metrics), Loki(log), Tempo(tracing), Grafana(dashboard)

PROFESSIONAL EXPERIENCE

Software Engineer

eData Services Phils. Inc. | Taguig City, Philippines

Dec 2024 – Present

- Developed a high-performance client-facing web application in a fast-paced agile team.
- Built frontend modules using **Next.js, React, TypeScript, and MUI**, including authentication, dashboard, activity logs, user management, and a full file-explorer interface.
- Designed scalable **REST APIs with ASP.NET Core**, implementing middleware, services, repositories, dependency injection, and clean architecture principles.
- Implemented secure authentication with **Identity Framework, RBAC, and Two-Factor Authentication (2FA)**.
- Developed an FTP-driven file explorer enabling upload, download, and hierarchical file organization.
- Implemented background processing using **Hangfire** for file tasks, reporting, and scheduled jobs.
- Completed **Docker and Kubernetes** training and applied containerization concepts for Azure deployments.
- Automated CI/CD pipelines using **GitHub Actions**.
- Developing **AI prototypes** using **LLMs, embeddings, vector search, RAG with Semantic Kernel** and Qdrant; exploring **Agentic AI** via **OpenAI SDK** and **CrewAI**.

Tech Stack: ASP.NET Core, C#, Next.js, React, TypeScript, PostgreSQL, Entity Framework, Identity Framework, Docker, Kubernetes, Azure, GitHub Actions, Hangfire.

Technical Engineer

MDS Call Solutions Inc. | Remote / Makati City, Philippines

Jul 2023 – Aug 2024

- Built a wage-access mobile app using **Flutter and Dart**, including Login, Profile, and Transaction modules.
- Integrated backend services written in **Laravel/PHP** for secure financial operations.
- Used **Retrofit and Dio** for optimized API integration.
- Applied **MVVM architecture** with Riverpod for maintainable and scalable codebases.
- Collaborated closely with UI/UX designers and stakeholders in a remote agile environment.
- Managed CI pipelines and version control using **GitLab**.

Tech Stack: Flutter, Dart, Laravel, PHP, Vue.js, MySQL, GitLab, Dio, Retrofit, Riverpod, MVVM.

Software Development Engineer

FPT Software Inc. | Makati City, Philippines

Sep 2022 – Jul 2023

- Ported and refactored legacy **C++ systems** for multi-platform compatibility (Windows & Linux).
- Developed Java tools using **Eclipse SDK, Maven**, and custom Makefiles.
- Built Android IPC components using **AIDL** and created Android/Android TV demo apps.
- Implemented **MVI (Orbit)** architecture and migrated UI layers to **Jetpack Compose**.
- Completed internal training for **AWS Cloud Practitioner**.

Tech Stack: C++, Java, Kotlin, Maven, Gradle, AIDL, Android Studio, Orbit MVI, Jetpack Compose, Bitbucket.

Research & Development Engineer

Advanced World Solutions Inc. | Makati City, Philippines

Jan 2020 – Sep 2022

- Developed a digital TV browser engine for automotive infotainment systems following **ARIB standards**.
- Used **Apache Xerces** for XML parsing and **SpiderMonkey** for JavaScript execution.
- Implemented rendering logic for XML nodes, UI elements, text, images, and MNG animations.
- Built multithreaded event-handling systems for real-time UI responsiveness.
- Tested software on Linux environments replicating automotive SoC performance.

Tech Stack: C++, Apache Xerces, SpiderMonkey JS Engine, XML/BTB/CLUT processing, Linux (Ubuntu), TortoiseSVN.

Core Technology Engineering Training

Trend Micro | Pasig City, Philippines

Jan 2019 – Apr 2019

- Studied Windows internals (processes, memory, registry, file systems).
- Performed malware analysis using **IDA Pro, OllyDbg, x64dbg, Process Explorer, Wireshark**.
- Created detailed technical threat reports and mitigation steps.

Specialization: Malware Analysis, Reverse Engineering, Windows Internals.

EDUCATION

Bachelor of Science in Electronics Engineering

Polytechnic University of the Philippines

2013 – 2018

- Department of Science and Technology Scholar
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CERTIFICATIONS

- **Microsoft AI Fundamentals (AI-900)**
 - **AI Engineer Agentic Track: The Complete Agent & MCP Course** – Udemy
 - **Best Way to Learn German Language: Full Beginner (A1.1)** – Udemy
 - Docker & Kubernetes – Udemy
 - Entity Framework: A Full Tour – Udemy
 - Flutter Advanced: Clean Architecture & MVVM – Udemy
 - SDN, OpenFlow & NFV – Asia Open RAN Academy
 - Cloud Computing, Edge Computing – Asia Open RAN Academy
 - 5G Mobile Networks – Asia Open RAN Academy
 - AI & Machine Learning – Asia Open RAN Academy
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LANGUAGES

- **English** — C1 (Advanced)
 - **German** — A1 (Beginner)
 - **Tagalog** — Native
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RELOCATION & WORK AUTHORIZATION

- Willing to relocate internationally and initiate work visa process upon receiving a job offer
- Available for full-time or part time roles