Hyowon Bernabe — Full Stack Developer + AI Engineer

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PROFESSIONAL SUMMARY

Full Stack Developer and AI Engineer with production experience building scalable web platforms and intelligent systems. Specialized in AI agents, RAG architectures, and end-to-end application development. Currently completing BS Computer Science at Saint Louis University.

TECHNICAL SKILLS

AI/ML & Languages: AI Agents, LLM Fine-Tuning, RAG, LoRA/Unsloth, Hugging Face, Generative AI, Vector DBs, Python, TypeScript, JavaScript, Kotlin, Java, C++, C#
Full Stack & Tools: Next.js, React, Node.js, MySQL, PostgreSQL, Prisma, Firebase, Docker, Git

EXPERIENCE

Full Stack Developer + AI Engineer | Globit Transient *(2025 - Present)*

- Designed and deployed a **full-stack booking platform** using Next.js, PostgreSQL, and Prisma, reducing manual booking errors by ~60% through automated validation.
- Built a **RAG-powered AI chatbot** with semantic search, handling ~70% of customer inquiries autonomously and reducing average response time by ~50%.
- Developed an **analytics dashboard** with KPI tracking (occupancy rates, RevPAN, booking trends), enabling data-driven pricing decisions that improved revenue visibility for stakeholders.

PROJECTS

Kuroko *(Stealth AI Interview Assistant)* | *C#, Whisper, SQLite Vector, Win32 API* *(2025)*

- Built a **real-time AI assistant** using OpenAI Whisper for speech-to-text, achieving sub-second transcription latency to provide instant context during live conversations.
- Implemented **vector-based RAG** with SQLite, enabling context-aware responses that reduced irrelevant answers by ~40% compared to baseline prompting.
- Designed an **invisible overlay UI** with Win32 hooks, allowing seamless use without disrupting the user's primary workflow or screen recording.

AI TOS Risk Summarizer | *Python, Llama 3.1, Unsloth, Gradio, LoRA* *(2025)*

- Fine-tuned Llama-3 8B via **Knowledge Distillation** to identify predatory ToS clauses, outputting structured "Verdict" and "Risk Assessment" for each flagged section.
- Optimized the training pipeline with **Unsloth + LoRA**, achieving **2x faster training** and **70% memory** reduction, enabling fine-tuning on consumer GPUs.
- Deployed a **Gradio streaming interface** supporting batch analysis of 10+ documents, providing real-time risk breakdowns for legal review.

Messenger Z | *Kotlin, Java, JADX, XPosed API, LSPatch* (2025)

- **Reverse-engineered Meta Messenger APK** to identify and hook privacy-related functions, bypassing ProGuard obfuscation.
- Built a **non-root privacy module** enabling read receipt and typing indicator control, addressing user privacy concerns without requiring device modifications.
- Developed a **self-contained patch engine** integrated directly into the APK, eliminating dependency on external framework managers and simplifying distribution.

EDUCATION

Saint Louis University – Bachelor of Science in Computer Science (BSCS) (2023 - 2027)

CERTIFICATIONS

Harvard University – CS50's Artificial Intelligence with Python (2026)
- Search, ML, neural networks, and optimization projects.

Databricks – Generative AI Fundamentals Accreditation (2026)
- LLM architectures and prompt engineering.

Hugging Face – AI Agents Course, AI Agents Fundamentals (2026)
- Built autonomous AI agents with tool integration.