

Ram David M. Brodett

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PROFESSIONAL SUMMARY

Computer Science Senior specializing in Full Stack Development, with a primary focus on Backend systems and AI/Machine Learning integration. Experienced in developing scalable applications and engineering robust workflows, prioritizing code quality and practical solutions.

EXPERIENCE

Undergraduate Researcher <i>De La Salle University Human-X Interactions Laboratory</i>	Oct 2024 – Present Manila
• Devised a comprehensive development strategy for a novel text-to-audio application by analyzing industry-standard AI pipelines and identifying critical literature gaps in user personalization and localization.	

Development Associate <i>De La Salle University FRWRD</i>	Jan 2026 – Present Manila
• Co-developed proprietary software solutions from concept to deployment, collaborating with cross-functional teams to identify bottlenecks and optimize daily workflows by 60%.	

PROJECTS

Hearsona	May 2025 – Present
• Architected a text-to-audio platform featuring a dynamic LLM-orchestrated pipeline with human-in-the-loop refinement for enhanced output relevance.	
• Optimized system performance via asynchronous task processing and tuned inference parameters, balancing computational load with high-fidelity generation.	
Distributed OCR System	Nov 2025
• Architected a distributed system using gRPC and Protocol Buffers, implementing a thread-safe Producer-Consumer pattern to decouple network I/O from CPU-intensive OCR tasks.	
• Developed a fault-tolerant asynchronous Qt (C++) client, integrating retry logic and exponential backoff to ensure robust communication under network instability.	
Lexson Inventory and Billing System	Oct 2024 – Dec 2024
• Led the end-to-end development of a custom inventory system, designing a centralized database architecture for real-time stock tracking and financial reporting.	
• Automated the business pipeline from order fulfillment to billing, eliminating manual entry errors and increasing staff productivity.	
Handwritten Digit Recognition	Jul 2023
• Conducted a comparative analysis of ML models (CNN, MLP, SVM), implementing data normalization and model tuning to achieve 97.35% accuracy.	

EDUCATION

De La Salle University <i>Bachelor of Science in Computer Science, Major in Software Technology</i>	Manila
	Aug 2022 – Oct 2026

TECHNICAL SKILLS

Languages: Python, C/C++, C#, Java, JavaScript, TypeScript, Kotlin, Go, SQL

Frameworks: Pytorch, Hugging Face, FastAPI, Next.js, React.js, Qt, JavaFX, JUnit

Libraries: Pandas, NumPy, Scikit-learn, Llama.cpp, Matplotlib

Developer Tools: Git, Docker, Jira, Google Cloud Platform (GCP), Amazon Web Services (AWS)