

Roi Victor Roberto

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Software Engineer

EDUCATION

De La Salle University CGPA: 3.755	Manila, Philippines
<i>Bachelor of Science (Honors) in Computer Science and Master of Science in Computer Science</i>	2022 – Present
<i>Minor in Digital and Technology Solutions</i>	2024 – Present
- Consistent First Honors Dean's Lister. - DOST-SEI JLSS 2024 Scholar.	

EXPERIENCE

Software Engineer RVCO rvco.dev	Jul 2026 – Present Remote
- Run an independent software practice focused on software recovery, internal tools, automation, and custom systems. - Assess existing systems, define repair or rebuild scope, and deliver work against clear technical and business constraints.	
Software Engineer Intern – DevOps, P&G Beauty (SK-II) Procter & Gamble	May 2025 – Aug 2025 Taguig, Philippines
- Selected for P&G's flagship Dream Internship Program to deliver a live infrastructure optimization project for a global enterprise application. - Isolated and refactored a critical microservice into a streamlined monolithic service, reducing architectural complexity, lowering infrastructure overhead, and improving deployment stability.	

SELECTED PROJECTS

Mission-Critical Push-to-Talk Command Platform	Apr 2026 – Present
- Led the technical implementation of a command platform spanning push-to-talk audio, live video, dispatcher workflows, SOS, location, and device monitoring. - Built browser endpoints, a dispatcher console, real-time control and media paths, and diagnostic tooling for the proof of concept. - Produced the system architecture and development roadmap for more scalable media, mobile clients, reliability, security, and operations.	
E-Waste Smart Locker	2026
- Designed an e-waste collection system spanning reusable box exchange, smart lockers, service operations, and sorting traceability. - Developed the product concept and end-to-end operating model, covering residents, collection teams, cabinet workflows, and downstream sorting.	
Timely.ph: Payroll Automation Platform	Jan 2026 – Present
- Building a Philippines-focused payroll platform for time-based salary computation, payroll review, and payslip generation. - Designed workflows for time-data import, payroll simulation, approval, locked records, and anomaly detection.	
Fylo: AI Support Intelligence Platform	Mar 2026
- Built a full-stack support operations platform with a real-time ticket queue, multi-tier review, and agent-task matching. - Used Google Gemini for ticket classification, routing, and context-aware response drafts; tested key workflows with Vitest and Playwright.	
MedRec Sentinel: Medication Reconciliation System	Jan 2026
Built a medication reconciliation prototype that extracts structured medication data from discharge notes and flags discrepancies for clinician review.	

- Combined MedGemma and Hugging Face models with deterministic validation rules, structured outputs, and a reproducible evaluation workflow.

Qantara: Hybrid Quantum-Classical Portfolio Optimizer Oct 2025

- Co-built a portfolio optimizer using classical filtering, QUBO formulation, QAOA experiments, and a mean-variance baseline to compare return, risk, diversification, and ESG priorities.
- Implemented the system with Python, CVXPY, pytket, Qiskit Aer, and Quantinuum tooling.
- Won the Portfolio Optimization challenge and placed 3rd overall at the GenQ Hackathon 2025 Singapore edition.

Qu-Alz: Alzheimer's Risk Assessment Research System Aug 2025 – Nov 2025

- Co-built a research system exploring earlier Alzheimer's risk assessment through brain MRI, machine learning, and quantum methods.
- Developed MRI preprocessing and segmentation, four-stage classification, and an Entanglement Entropy Score derived from quantum-encoded image features.
- Placed 1st runner-up at SEA Quantathon 2025; developed the work into a conference paper accepted for presentation at ASEAN IVO Forum 2025.

RESEARCH AND LEADERSHIP

Researcher <i>Dr. Andrew L. Tan Data Science Institute</i>	Sep 2025 – Present <i>De La Salle University</i>
Venture Builder <i>QAI Ventures Bootcamp</i>	Nov 2025 – Feb 2026 <i>QAI Ventures, Singapore</i>
Tutor <i>Peer Tutors Society</i>	Jun 2023 – Present <i>De La Salle University</i>
Researcher <i>Center for Complexity & Emerging Technologies</i>	Oct 2024 – Sep 2025 <i>De La Salle University</i>
Finalist, P&G Next <i>P&G Leadership Excellence Camp 2025</i>	Feb 2025 – Mar 2025 <i>Procter & Gamble</i>

HONORS

Accepted Speaker, ASEAN IVO Forum 2025 (Singapore) <i>Paper titled "Qu-Alz: Quantum-Enhanced Early Prediction of Alzheimer's in Southeast Asia" selected for presentation at an international ICT research forum.</i>	Nov 2025 <i>NICT and ASEAN IVO</i>
GenQ Hackathon World Tour (Singapore) <i>Top 3 & Challenge Winner</i>	Oct 2025 <i>QAI Ventures</i>
SEA Quantathon (Thailand) <i>1st Runner-Up</i>	Aug 2025 <i>Open Quantum Institute</i>
Quantum Computing and Blockchain Hackathon <i>2nd Runner-Up</i>	May 2025 <i>Quantum Computing Society of the Philippines</i>

TECHNICAL SKILLS

Languages: Python, TypeScript/JavaScript, Java, C/C++, SQL, R, MATLAB
Frameworks and Web: React, Next.js, Express.js, Tailwind CSS, Shadcn UI, Convex, Supabase, Handlebars
AI and Data: PyTorch, TensorFlow/Keras, Scikit-learn, Hugging Face, Pandas, NumPy, NLP, Computer Vision, LLM applications
Cloud and Tools: AWS, Docker, Kubernetes, Git, CI/CD, Jupyter Notebook, Google Colab, Tableau
Databases: MongoDB, PostgreSQL, MySQL
Quantum and Optimization: Qiskit, pytket, CVXPY, Quantinuum tooling