Rafael Red Angelo M. Hizon

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Experience

Metrics came from data recorded after deployment or teams' estimates made during planning and development. Actual outcomes may vary.

Senior Subject Matter Expert Realpage
September 2026 – Concluded early due to health circumstances

- **Key Achievements:**
  - Accelerated mastery of OneSite, one of the leading property management platforms in the US real estate industry, by leveraging AI tools (RealPage GPT, ChatGPT, Microsoft Copilot) for rapid knowledge acquisition and workflow comprehension.
  - Applied prompt engineering techniques to break down complex platform documentation and training material, compressing the typical onboarding learning curve.
  - Demonstrated readiness to take on frontline coaching and supervisory duties through strong, AI-augmented onboarding performance.
- **Technical Stack:** OneSite, RealPage GPT, ChatGPT, Microsoft Copilot
- **Key Responsibilities (as prepared for):**
  - Developing AI and automation tools for frontline staff and leaders.
  - Training, managing, supervising, and coaching frontliners to close technological and platform-adoption gaps.
  - Guiding frontline staff through hands-on onboarding on OneSite.

Software & AI Engineer Xenon Health
April 2026 – August 2026

- **Key Achievements:**
  - **Developed** AI-powered voice agents capable of conducting highly natural and human-like conversations, enabling scalable automation of marketing and operational workflows saving the company at least **$1,300 per month** per instance, with **savings growing** as more instances run.
  - **Built** document-processing systems that analyze, extract, and organize **thousands of PDFs in parallel within seconds**, eliminating hours of manual work.
  - **Engineered** secure encryption and data-protection mechanisms safeguarding sensitive healthcare information, including medical records, billing statements, and patient-related documents.
- **Technical Stack:** Go, Node.js, Python, React, LLMs, Text-to-Speech, Speech-to-Text, SQL, MongoDB, Azure
- **Key Responsibilities:**

- **Designed** AI-driven automation solutions to streamline healthcare operations and reduce administrative workload.
- **Integrated** large language models, speech technologies, and workflow orchestration platforms into production-ready applications.
- **Implemented** secure data pipelines and privacy-focused architectures aligned with healthcare data protection requirements.
- **Partnered** with business stakeholders to identify high-impact automation opportunities and rapidly deliver measurable operational improvements.

Software Engineer City Government of Calamba
January 2026 – Present

- **Key Achievement:** Architected and delivered modernization frameworks for government service workflows, establishing the foundation for replacing legacy Public Affairs Division processes and enabling projected reductions of **60%–80%** in processing time across critical service pipelines.
- **Technical Stack:** SQL, Node.js, React, Prisma, Docker, Redis, Azure, DigitalOcean
- **Key Responsibilities:**
  - **Designed** scalable software architectures supporting digital transformation initiatives across government operations.
  - **Engineered** workflow automation and data-processing systems to eliminate operational bottlenecks and improve service delivery efficiency.
  - **Established** reusable application frameworks and development standards to accelerate future modernization projects.
  - **Collaborated** with stakeholders and department personnel to translate policy and operational requirements into production-ready solutions.

Co-founder and Solutions Development Lead Pinnacle Robotics
October 2023 – Present

- **Key Achievements:**
  - **Generated over ₱1M** in first-year sales from an initial capital of just **₱20,000** through scalable systems and strategic execution.
  - Trained a team of **13 Letran students** with little to no coding experience, leading all members to win awards at the **International Exhibition for Young Inventors** in Japan, including **2 gold medals**, **2 silver medals**, and international recognitions from **Italy, Russia, and Taiwan**.
  - Coached a **La Salle** team to develop AI-driven systems, including a **robotic steak-cooking platform**, an **automated waste segregation robot**, and a predictive health app for detecting hormonal imbalances and supporting **early cancer prevention**.
  - Built *Pynnacle Genesis*, a Python package that **reduces integration complexity** and saves **10–15 hours per project**.

  - Co-authored and deployed a book and other learning materials adopted by **500+ students** for practical Computer Science training.
- **Technical Stack:** Python, C++, LLM, Ollama, OpenCV, Git, GitHub, Bash
- **Key Responsibilities:**
  - Secured partnerships with school leaders to expand program adoption.
  - Designed curricula for teaching computer science fundamentals by building robots.
  - Delivered structured *Computer Science through Robotics* training for both beginner and elite students and teachers.

Full-Stack Web & AI Developer Instant Reader
January 2025 – May 2025

- **Key Achievement:** Increased landing page conversions to **7%** post-launch and peaking at **10%** within **48 hours only**, **surpassing company's benchmark of just 2%**.
- Reduced response time to clients from **4 hours to under 30 minutes** through AI automation.
- **Technical Stack:** Python, LLM, React, Vue.js, Node.js, PHP, Laravel, Express for Node, MongoDB, Mongoose, HTML, CSS, Bootstrap, JavaScript, DigitalOcean, Git, Github, PM2, Bash, Nginx, Meta Ads, Meta Conversions API, Meta Ads Manager,
- **Key Responsibilities:**
  - **Engineered** AI-driven chatbot systems for scalable lead engagement.
  - **Designed** conversion-focused frontend experiences to streamline user flow.
  - **Leveraged** analytics and tracking to drive continuous performance improvements.

Developer & Instructor Peonz Math & Robotics
July 2019 – November 2023

- **Key Achievement:** Enabled clients to resolve complex programming challenges in as little as **5 hours**.
- **Technical Stack:** Python, C++, Arduino, HTML, CSS, Bootstrap, JavaScript, Node.js, EJS, Chinese Robotics IDEs, Scratch
- **Key Responsibilities:**
  - **Analyzed** and reverse-engineered multi-platform robotics codebases.
  - **Automated** conversion of PowerPoint slides into styled PDF modules saving **30 minutes** per project.
  - **Delivered** structured training programs for learners across skill levels.
  - **Supported** clients with targeted technical solutions to accelerate learning outcomes.

Software Engineering Project Manager Institute of Computer Science, UPLB
March 2022 – June 2022

- **Key Achievement:** Led a **3-team** initiative to develop a record management system, saving up to **50 hours annually**.
- **Technical Stack:** React, Node.js, Express for Node, MongoDB, Mongoose, HTML, CSS, JavaScript, Git, Github, Bash
- **Key Responsibilities:**
  - **Directed** cross-team execution of a production-grade system.
  - **Integrated** front-end, back-end APIs, and database architecture.
  - **Improved** workflow efficiency beyond traditional Excel-based processes.

Robotics Programmer & Instructor Colegio de San Juan de Letran Calamba
January 2014 – June 2019

- **Key Achievements:**
  - Programmed an autonomous oil skimmer that reduced manual labor by **up to 50 hours per deployment**, and was featured on national TV: https://youtu.be/Wqms57OH2Ps
  - Developed robotics systems that secured **5 gold medals** across national and international competitions, including events in the **United States, China, and Korea**.
- **Technical Stack:** C++, Arduino, Python, Raspberry Pi, HTML, CSS, JavaScript
- **Key Responsibilities:**
  - **Developed** maintainable robotics software designed for rapid updates and streamlined deployment.
  - **Mentored 100+ students and educators** in robotics and programming.
  - **Drove** competitive performance through structured training and project development.

Education

BS Computer Science University of the Philippines Los Baños
2019 – 2023

- **GWA:** 1.21 on a scale where 1.0 is the highest (best) and 5.0 is the lowest (worst).
- **Latin Honors:** Magna Cum Laude
- **Key Academic Achievement:** Ranked **1st** among Magna Cum Laude graduates of the Institute of Computer Science.
- **Technical Stack:** HTML, CSS, JavaScript, React, Node.js, Python, Assembly, R, Java, C, COBOL, Prolog, SCHEME, Erlang, Rust, Dart, VHDL, SQL, NoSQL, MariaDB, MongoDB, Mongoose, Bash, Git, Github, LaTeX
- **Undergraduate Research:**
  - Developed **ProteusAI**, an API that integrates with messaging platforms to replicate a user's communication style, enabling scalable deployment of high-performing virtual assistant interactions.

– Authored the paper **ProteusAI: An AI-Powered Approach on Human Impersonation**, demonstrating the system's ability to replicate communication patterns and convincingly pass as the target individual in controlled evaluations.

High School Colegio de San Juan de Letran Calamba
2013 – 2019

- **Key Academic Achievements:**
  - High Honors
  - Best Research Award
  - Plaque of Excellence in Robotics
- **Research:** Developed an automated robotic system for plant protection that detects rainwater pH, segregates acidic input into reservoirs, and neutralizes it through a fully integrated treatment process.

Seminars & Conference

Automate Conference & Promat Chicago, USA
2017

- Gained insights on scalable robotics systems, cloud-integrated automation, and human-robot collaboration for real-world deployment.
- Learned about supply chain automation, warehouse optimization, and high-performance leadership from industry experts and the keynote speaker, **Magic Johnson**.