Luis Manuel Carbajal Herrera

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Education

Universidad Nacional Hermilio Valdizán — Huánuco, Peru
B.S. in Systems Engineering. — 2020 – 2025
Thesis (in progress): *Development of a smart vest to improve the autonomous and safe mobility of people with visual impairments, Huánuco 2026.*

Pontificia Universidad Católica del Perú — Lima, Peru
National exchange program in Computer Engineering. — August – December 2025

Experience

BAMZE UK · bamze.pe — Peru
Software Developer — July – August 2026
- Built a custom WordPress plugin that brings medical equipment quoting online: quote cart, requests with sequential codes and PDF summaries.
- Developed the sales advisor dashboard with quote status tracking and an audit log; currently in use at bamze.pe.

Diario Ahora · ahora.com.pe — Huánuco, Peru
Systems Programmer — April – August 2026
Systems Engineering Intern — January – March 2026
- Led the migration of the news site from WordPress to an in-house platform on a VPS.
- Developed news management, advertising and role-based access control modules with Next.js and Java.
- Automated editorial processes, streamlining the publishing workflow.

Pontificia Universidad Católica del Perú — Lima, Peru
Web Developer Intern — August – December 2025
- Developed improvements for an academic management web system with Next.js, Java and Spring Boot.
- Performed functional testing and fixed bugs in production.

Research & Projects

Smart Vest (ELEY · LAZARIA) — UNHEVAL Undergraduate Research Group — Huánuco, Peru
Researcher — August 2024 – Present
- Developing a vest for people with visual impairments that detects obstacles in real time with computer vision and alerts the user through vibration and audio.
- Secured PEN 9,000 in team funding through the UNHEVAL Undergraduate Research Grant 2025.

Reto Trivia Huánuco — trivia.santerv.com
Personal Project — July 2026 – Present
- Built a multiplayer web game to conquer the 11 provinces of Huánuco on a 3D map (React, Three.js) with a Cloudflare Workers backend; 1,700+ questions, regional ones citing official sources.

CARDIONET — in collaboration with UNMSM — cardionet.santerv.com
Developer — December 2024 – April 2025
- Developed a web app that estimates the probability of heart disease with three machine learning models (scikit-learn) that run in the browser, without storing patient data.

ALPAKITAY — UNHEVAL — Huánuco, Peru
Team Lead — August 2023 – February 2024
- Led the development of an app for learning Central Quechua: a collaborative dictionary of words, suffixes and verbs, a validation panel, and lessons with quizzes (Flutter).
- Designed the interfaces; the needs assessment drew on 57 surveys in San Miguel de Cauri (Lauricocha).

Honors & Presentations

Speaker, 2nd Regional and 1st National and International Congress of Scientific Research Results, UNHEVAL — 2026
Speaker and Winner, 2nd Conference of Special Projects and Undergraduate Research Groups, UNHEVAL — 2026
1st Place Nationwide, Inclusive Management Best Practices, Transportation category (CONADIS) — 2025
1st Place, 7th UNHEVAL Innovation Contest — 2025
Winner, UNHEVAL Undergraduate Research Grant — 2023, 2025
Speaker, 2nd CONASEIN Congress — 2024

Skills & Interests

Technical: Next.js, React, TypeScript, HTML/CSS; Java, Spring Boot, Node.js, PHP (WordPress); Python (machine learning with scikit-learn, computer vision), Power BI (intermediate); Git, Docker, Linux/VPS, Cloudflare.
Certifications: Office applications up to advanced level, with a focus on Excel (Cámara de Comercio de Huánuco).
Languages: Spanish (native), English (basic).
Interests: applied research and technology for social impact.