

Carlos Lee Chung Mesones

Software Developer

 Portfolio  hello@carloschung.dev  Carlos Chung  BeafLee

PROFILE

Systems and Computer Engineer and Full Stack Developer specialized in JavaScript/TypeScript and modern architectures (Next.js, Node.js). Expert in implementing robust solutions, ranging from graph databases to advanced frontend optimization. Possess a problem-solving mindset driven by continuous improvement, backed by a track record of technical leadership in innovation projects and high-level programming contests.

PROFESSIONAL EXPERIENCE

Full Stack Developer 01/2025 – 08/2025
Vitekey Software Corporation S.A.C. Chiclayo, Peru

- **Marketplace Development with Microservices Architecture:** Designed and implemented a scalable architecture using **Moleculer** to orchestrate polyglot microservices in **Node.js** and **Java**.
- **Graph Database Innovation:** Integrated **JanusGraph** with **Apache Gremlin** to model complex data relationships, optimizing queries and information traceability within the marketplace.
- **Modern Frontend & UX/UI:** Developed the administrative panel and client view using **Next.js** and **Material UI (MUI)**, applying solid UX principles to ensure intuitive navigation.
- **High-Performance Frontend Development:** Led the layout and development of a financial landing page using **Astro** and **GSAP**. Achieved fluid scroll-controlled animations and maximum optimization (High Lighthouse score) for mobile and desktop devices.
- **Collaborative Work:** Collaborated closely with designers and project managers to translate visual requirements into efficient and responsive code.

Full Stack Developer 06/2024 – 01/2025
Freelance Remote

Design and development of custom technological solutions for diverse clients, spanning web platforms and mobile applications.

- **B2C E-commerce:** Built a complete virtual store and real-time administrative panel using **Next.js** and **MySQL**. Digitalized the inventory and optimized the sales flow, focusing on conversion rates and UX.
- **Progress Management Mobile App:** Led the Full Stack development of a mobile app using **React Native (Expo)** for tracking readings and evaluations. Designed a complex relational database to support business logic and built a secure backend with **Node.js** and **Express**.
- **Tournament Platform:** Developed an interactive web application for competition management. Created a responsive interface with **Angular** and **Tailwind CSS**, integrated with a scalable RESTful API.

Software Developer 09/2023 – 12/2023
Universidad Católica Santo Toribio de Mogrovejo Chiclayo, Peru

- **Mobile Application Development:** Developed a native application using **Android Studio** and **Java** for a University Social Responsibility (RSU) project focused on reforestation.
- **Web Services Integration:** Connected the mobile application with a backend API developed in **Laravel (PHP)**, allowing real-time data synchronization.
- **Institutional Recognition:** Presented the functional demo, receiving distinguished mentions for interface usability and the social impact of the technological solution.

HONORS & AWARDS

National Top 10 Finalist - "Operación Cerrojo"

11/2025

Perú Hub Digital Universitario | Lima, Peru

- Led the multidisciplinary team that developed "Operación Cerrojo," a technological solution selected among the top 10 nationwide.
- Served as the keynote speaker, defending the technical and commercial viability of the project before an expert jury and live audience.

NASA Human Exploration Rover Challenge (HERC)

04/2025

NASA Marshall Space Flight Center | Huntsville, Alabama, USA

- **Telecommunications Director:** Represented Peru and USAT in this international engineering competition.
- Managed the technical communications area of the rover, achieving **19th place worldwide** in the *Human Powered* category, competing against universities from around the globe.

3rd Place - Hackathon EcoImpacto 2024

11/2024

INCUBA UNPRG & Emprendedores En Serie

- **Sustainable Innovation (IoT):** Co-developed "OrganicBox," a smart composting solution designed to automate organic recycling.
- **Recognition:** Awarded 3rd place for the prototype's technical viability and environmental impact.

2nd Place - Programming Contest (Master Level)

06/2023

Universidad Católica Santo Toribio de Mogrovejo | Chiclayo, Peru

Demonstrated advanced skills in algorithm resolution and programming logic under time pressure, outperforming faculty peers.

3rd Place - Mathematics Olympiad

2019

XVI ONEM 2019

Achieved 3rd place in the regional stage of the National Mathematics Olympiad - XVI ONEM 2019 - Category ALFA - Level 3.

TECHNICAL SKILLS

- **Languages:** JavaScript, TypeScript, Java, Python, SQL, Gremlin (Apache).
- **Backend Technologies:** Node.js, Express.js, Nest.js, Moleculer (Microservices), Flask, Laravel.
- **Frontend Technologies:** React, Next.js, Astro, Angular, Tailwind CSS, Material UI (MUI), GSAP, HTML5/CSS3.
- **Database Management:** PostgreSQL, MongoDB, JanusGraph, Redis, Firestore Database, MySQL.
- **DevOps & Tools:** Git/GitHub, Docker, AWS, Firebase, Linux (Ubuntu), Postman, Jira, Figma.
- **Data Analysis & Visualization:** Power BI - ETL Process.
- **Network Design:** Cisco Packet Tracer.

LANGUAGES

Spanish: Native

English: Intermediate

EDUCATION

Systems and Computer Engineering

02/2020 – 12/2025

Universidad Católica Santo Toribio de Mogrovejo

Chiclayo, Peru

English Language Program

07/2017 – 12/2019

Instituto Cultural Peruano Norteamericano - ICPNA

Chiclayo, Peru

INTERESTS

Personal Development | Communication | Technology | Blockchain | Data Science | Basketball | Movies & Series