Andre Ivan Melendez Cava

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Professional Profile

Full-Stack Developer in training with experience in academic prototypes and international hackathons. Proficient in React, Next.js, Node.js, and SQL, with additional skills in building secure APIs and responsive interfaces. Currently developing backend expertise in Python. I aim to contribute to innovative projects while continuing to grow as a software engineer.

Education

Peruvian British Cultural Association (Británico)   Jan 2020 – Apr 2024
- English: B2 Level – preparing for Cambridge First Certificate (FCE)

National Major University of San Marcos   Apr 2023 – Present
- Software Engineering
- Top 10% of cohort

Supplementary Course   Mar 2023 – Present
- Information Technology Tools – UNMSM Computing Center (Certification in progress)

Academic Projects

Full-Stack Developer, E-Commerce System (Prototype)   Mar 2025 – Jul 2025
- Designed the architecture with Next.js 14 (SSR/ISR) to optimize SEO and initial performance.
- Modeled and implemented a SQL database ensuring referential integrity and efficient queries.
- Developed endpoints for catalog, cart, and purchase with validations and centralized error handling.
- Configured secure authentication with NextAuth.js and built a responsive interface with TailwindCSS and reusable components.

Leadership and Activities

Frontend Developer - Participant, Eneisoft Hackathon XIV (Theme: Corruption)   Nov 2024
- Developed a functional prototype module for the "Transparency Panel" of the Government of Peru, incorporating analysis of relationships among public officials.
- Built in React as a functional interface to demonstrate the workflow.

Frontend Developer - Participant, Hack-Nation Global AI Hackathon – 2nd Edition (Theme: AI in Education)   Aug 2025
- Developed a functional prototype of an interactive AI-based learning platform, where users advance through lessons, interact with a GPT-4 tutor, and track their progress.
- Implemented with Next.js, TailwindCSS, NextAuth, and PostgreSQL for authentication, session management, and progress storage.

Skills

Languages: Native Spanish, English B2 – preparing for FCE certification

Frontend: JavaScript, TypeScript, React, Next.js, TailwindCSS

Backend: Node.js, Python (basic level)

Databases: PostgreSQL, MySQL

Version Control: Git, GitHub