

Fernando Haro Calvo

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EDUCATION

Universidad Autónoma de Baja California

B.S. in Software and Emerging Technologies Engineering | GPA: 9.6/10.0

Ensenada, BC

Aug 2022 – Jun 2026

WORK EXPERIENCE

EPAM Systems

Remote

Automated Testing Engineer Intern | Java, Selenium, TestNG

Oct 2025 – Present

- Developing scalable automated test frameworks using **Java** and **Selenium**, reducing regression testing time by 40%.
- Implemented **Page Object Model (POM)** patterns to enhance test maintainability and created reusable utility libraries.

Tech4Good Research Lab

Ensenada, BC

Fullstack Developer Intern | React Native, Supabase, Node.js

Mar 2025 – Oct 2025

- Architected "The Autism Compass", a **React Native** app serving caregivers with essential screening resources.
- Designed a robust PostgreSQL schema and implemented **RLS** policies to ensure HIPAA-compliant data protection.

PROJECTS

NASA Explorer | React, NestJS, MongoDB, GCP, Vertex AI

Oct 2025

- Developed an AI assistant enabling scientists to query space biology publications via natural language processing.
- Architected a **RAG pipeline** using **Vertex AI** embeddings, processing 600+ papers with 95% factual accuracy.
- Implemented interactive knowledge graphs with **D3.js** to visualize citation networks and research relationships.

Stilo | React Native, NestJS, Azure, PostgreSQL, Docker

Oct 2025 – Dec 2025

- Engineered a mobile fashion assistant using **React Native** with virtualized lists for high performance scrolling.
- Developed a **semantic search engine** using embedding-based similarity to recommend outfits based on user style.
- Deployed a containerized **NestJS** backend on Azure, exposing RESTful APIs for real-time wardrobe management.

Awita | React, NestJS, AWS, Redis, MySQL, Arduino

Jan 2025 – May 2025

- Designed a scalable IoT water monitoring platform using **serverless architecture**, handling sub-100ms latency.
- Built a real-time dashboard using **React**, visualizing consumption trends through custom chart components.
- Implemented LSTM-based predictive models to forecast water usage, achieving 85% accuracy in pilot tests.

HONORS & AWARDS

1st Place in ENITCI 2025 (Engineering and Development Category)

Nov 2025

1st Place in NASA Space Apps Challenge (Local Competition - Ensenada)

Oct 2025

1st Place in CTRL-Coders 1st open competitive programming contest

Apr 2025

Honorable Mention in Elegis-Tech 3 Hackathon (Top 5 Teams)

Mar 2025

PROGRAMMING LANGUAGES & TECHNOLOGIES

Languages

TypeScript, Python, Java, C++, SQL

Technologies

React, Node.js, NestJS, Tailwind, Next.js, Express

Tools & Cloud

AWS, Docker, Git, Linux, Jira, Postman

Spoken Languages

Spanish (Native) English (Advanced - B2)

LEADERSHIP

CTRL-Coders Competitive Programming Club | Co-Leader

Oct 2024 – Present

- Leading weekly algorithmic workshops for 80+ students, focusing on Data Structures and contest prep.