

Fernando Haro Calvo

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EDUCATION

Universidad Autónoma de Baja California <i>B.S. in Software and Emerging Technologies Engineering</i> <i>GPA: 9.6/10.0</i>	Ensenada, BC <i>Aug 2022 – Jun 2026</i>
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EXPERIENCE

EPAM Systems <i>Automated Testing Engineer Intern</i> <i>Java, Selenium</i>	Remote <i>Oct 2025 – Present</i>
Tech4Good Research Lab <i>Fullstack Developer Intern</i> <i>React Native, Supabase, Node.js</i>	Ensenada, BC <i>Mar 2025 – Oct 2025</i>

• Developing automated test frameworks using **Java** and **Selenium** to ensure software quality and reliability across enterprise applications.

• Developed a **React Native** mobile application serving caregivers and adults with Autism Spectrum Disorder (ASD), providing access to screening questionnaires and local professional networks.

• Architected and implemented the backend infrastructure using **Supabase**, including database schema design, secure authentication flows, and row-level security policies.

PROJECTS

NASA Explorer <i>React, NestJS, MongoDB, GCP, Vertex AI</i>	Oct 2025
• Won 1st place among 17 teams at NASA Space Apps Challenge for building an AI-powered research assistant enabling scientists to explore NASA's space biology publications through natural language queries.	
• Architected a RAG (Retrieval-Augmented Generation) system using Google Cloud Vertex AI , ensuring 100% factual accuracy by grounding responses exclusively in verified NASA documents.	
• Built interactive knowledge graphs with D3.js visualizing relationships between 600+ research articles, helping researchers identify knowledge gaps and research trends in space biology.	
Awita <i>React, NestJS, MySQL, AWS, Lambda, Arduino</i>	Jan 2025 – May 2025
• Designed and developed a fullstack IoT platform enabling households in water-scarce regions to monitor and optimize water usage in real time, potentially reducing consumption by 30%.	
• Built a responsive dashboard using React and TypeScript with live data visualizations, historical trends, and LSTM-based predictive analytics for water consumption forecasting.	
• Engineered a scalable backend with NestJS and AWS Lambda , processing 1000+ daily sensor readings with 100ms average latency and 99.9% uptime.	

LEADERSHIP & AWARDS

- **Elegis-Tech 3 Hackathon — Honorable Mention (Mar 2025):** Developed LegisConnect, a civic engagement platform using Next.js and Python web scraping to connect citizens with legislators.
- **Competitive Programming Club Co-Leader (Oct 2024 – Present):** Leading weekly programming workshops for 80+ students, focusing on algorithmic problem-solving and data structures. Managing educational content and community engagement through [@ctrl.coders](#).

TECHNICAL SKILLS

Programming Languages: JavaScript, TypeScript, Python, Java, C#, C++
Frontend: React, Next.js, React Native, TailwindCSS
Backend: NestJS, Django REST, FastAPI, Express
Database: PostgreSQL, MySQL, MongoDB, Supabase
Cloud/Infrastructure: AWS, Azure, GCP, Docker, GitHub Actions
Spoken Languages: Spanish (Native), English (Advanced - B2 Certified)