

# HÉCTOR EDUARDO GARZA FRAGA

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## EDUCATION

**B. S. Computer Science and Technology**, Tecnológico de Monterrey Aug 2022 - June 2026 (Expected)  
*Concentration in Advanced Artificial Intelligence for Data Science*  
GPA: 4.0  
**Key Coursework:** Object-Oriented Programming, Algorithms and Data Structures, Computer Networking, IoT, Database Management  
**Honors & Achievements:** 100% Academic Merit Scholarship, Xignux Challenge 2024, Top 3 Finalist

## SKILLS

**Languages** Python, JavaScript, C++, SQL, Java  
**Frameworks** React, FastAPI, Django, LangChain, React Native, Flask  
**Tools** Supabase, GitHub, AWS, Google Firebase, OCI, Figma, Jupyter Notebook

## EXPERIENCE

**InStep Internship, Infosys** AI Agents, Semantic Search, LLM, Python, React, Flask Jun 2024 - Aug 2024

- Developed a semantic caching system integrated with EdgeVerve chatbot for PDF data retrieval, reducing process time by 90%.
- Created a system for user-driven agent and task creation with personalized dashboards and charts, enhancing task management efficiency.

**Full Stack Intern, Cemex** React, FastAPI, Firebase, Supabase Feb 2025 - Present

- Developed 5 web applications for Promexma operations: Xpresa (customer satisfaction tracking), Permisos (permit management dashboard), Uniformes (employee sizing system), and Control Interno (inventory transparency tool) across 60+ branches.
- Implemented LLM-based customer support system to handle frequent inquiries, reducing operational workload in customer support.

## PROJECTS

**SmartColonia: Comprehensive Neighborhood Management Platform** FastAPI, React Native, Amazon S3, Supabase

- Developed a SaaS application with three user levels (Security Guard, Resident, Administrator) in beta with 200 users, projecting 1,000 users within six months.
- Implemented access control modules, integrated payment system, community announcements, and survey tools for neighborhood management.

**Topografía Cemex: Topographic Management System** React, FastAPI, PostgreSQL, Supabase [Demo](#)

- Built a topographic management system for road construction quality control with automatic SCT compliance calculations and real-time field data capture.
- Implemented automated elevation calculations using PostgreSQL triggers and TanStack Query for optimized data management with reporting capabilities.

**Acervo Bibliográfico Digital LABNL: Full Stack Developer** React, Axios, Google Sheets [Website](#)

- Created a website for the bibliographic collection of the Citizen Laboratory of Nuevo León using React and Google Sheets. Helped 20,000 people monthly to find relevant books in the digital bibliographic collection, receiving 19,900 visitors in June 2024.