

# Luis Antonio Bolaina Domínguez

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## EDUCATION

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**ITESM (Tecnológico de Monterrey)** - Monterrey, NL

**Expected June 2027**

*Bachelor of Science in Computer Science and Technology | GPA 91.2/100*

- Relevant Coursework: Software Construction, Data Structures & Algorithms, IoT, OOP.

## LEADERSHIP AND EXPERIENCE

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### ***Cipheria (Startup)***

*Full Stack Developer | Part Time*

**June 2025 - September 2025**

- Designed, built, and deployed a startup landing page using React, and Firebase, ensuring fast load times and reliable performance.
- Implemented modular UI components with TailwindCSS to streamline future feature development and ensure design consistency.
- Collaborated closely with founders in an agile environment, applying sprint planning and code reviews to align technical design with brand identity.

### ***Swift Challenge Fest Hackathon***

*Team Member & Product Owner*

**June 2025**

- Directed a 4-person team by defining product vision, roadmap, and feature priorities, delivering a functional iOS prototype in under 24 hours.
- Delegated tasks based on strengths and expertise, ensuring 100% milestone completion within deadline.
- Facilitated open collaboration and brainstorming sessions, increasing team efficiency and creativity.

### **SEITC (Computer Science Student Society)**

*Information Technology Coordinator*

**August 2025 - Present**

- Contributed to the development of SEITC's official web platform using React and Typescript, showcasing the community's culture, projects, and students experiences.
- Strengthened teamwork and communication skills by coordinating with designers and content creators to align technical output with the organization's vision.

## PROJECTS

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### **Theos Learning**

*Full-Stack Web Application*

**November - December 2025**

- Developed and maintained the API backend for the Theo Learning Platform, a comprehensive learning management system built with Javascript/Node.js, serving GP Construcción's training needs.
- Engineered robust RESTful APIs enabling seamless user authentication, course management, and learning analytics, supporting the platform's core functionality and user engagement.
- Implemented Redis caching service for session management, optimizing API performance and reducing database load, resulting in faster response times for 600 concurrent users on GP Construcción.

### **HeatShield**

*Mobile Application*

**June 2025**

- Co-Developed a native iOS app in SwiftUI to protect users during extreme heat events by providing safety alerts, shelter locations, and home preparedness tools.
- Engineered a 'Cool Zones' map by integrating MapKit and CoreLocation to geolocate nearby shelters and provide navigation via Apple Maps
- Integrated the OpenWeatherAPI for real-time heat index monitoring and utilized SwiftData for persistent, on-device storage of user assessments and alerts.

### **Brew**

*Mobile Application*

**August - October 2025**

- Developed a native iOS application in Swift for social partner Káapeh México, enabling coffee producers in Chiapas to monitor and manage coffee plot health.
- Integrated a CoreML vision model for on-device plant disease detection, providing users with real-time agronomic recommendations.
- Engineered a key accessibility feature leveraging MLX to power on-device translation from Spanish to the indigenous language Tsotsil.

## TECHNICAL SKILLS

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**Languages:** Typescript, Python, Javascript, SQL, Swift.

**Frameworks/Libraries:** React, Node.js, NextJS, TailwindCSS, Vercel, MLX, Apple Foundation

**Tools:** Github, Docker, Git, npm, Aiven, PostgreSQL, Firebase, Copilot, CI/CD.

**Soft Skills:** Communication, Project Methodology (Agile/Scrum), Design Thinking, User Empathy, Strategic Planning.