

# Brandon Jesús Hernández Herrera



brandonhxrr



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brandonhxrr.github.io

## EDUCATION

### Instituto Politécnico Nacional (IPN) | Superior School of Computer Sciences (ESCOM)

*Computer Systems Engineering, B.S.*

September 2020 – June 2024

CGPA 89 out of 100

Related coursework: Data structures and algorithms, Operative Systems, Object Oriented Programming, Databases, Algorithm analysis, Distributed systems, Theory of Computation, Software Engineering, Machine Learning.

## EXPERIENCE

### Software Engineer | Encora

August 2024 – Present

- Contribute as a Software Engineer within Encora's Mexico Delivery Unit, delivering cross-project support on billable engineering work across client engagements.

### Android Engineer | Telly

December 2024 – December 2025

- Developed and implemented new features across React Native and Kotlin for an Android TV application.
- Maintained existing application features to ensure reliable functionality and alignment with product expectations.
- Built automated workflows to update configurations in the app widget using Python and GitHub actions.

### Software Engineer Intern | Encora

August 2024 – November 2024

- Designed and built a full-stack task management web application using Java + Spring Boot on the backend and React, TypeScript, and Tailwind CSS on the frontend.
- Developed a flight search web application integrating the Amadeus API, implementing backend services with Spring Boot (Java) and a frontend with React JS and TypeScript.

### Level 3 Support Engineer – Edify Developer | Citibanamex

July 2024 – December 2024

- Analyzed and resolved incidents in Citi's enterprise banking platform (BancaNet Empresarial) by developing and implementing fixes through the Edify platform, ensuring minimal disruption to banking services and operational efficiency.

## MAJOR PROJECTS

### Meteora ↗ – Weather application for Android

April 2023 – Present

- Trained a random forest model using historical weather data for Mexico City, obtaining predictions with more than 60% accuracy over a range of up to 6 months.
- Designed and developed a mobile application using Jetpack compose through the MVVM architecture, implementing the OpenWeather API to show current weather conditions and the Google Maps API to show available weather maps.

### Rutzo ↗ – Web3 game in Vara Network

June 2023 – Present

- Architected and implemented the user interface and components for the project using React JS with Typescript, emphasizing a seamless and immersive user experience.

### Gallery ↗ - Multimedia gallery application for Android

November 2022 - Present

- Incorporated the Media Store API to retrieve user media and incorporated an optimized algorithm for loading data in chunks which improved the application's speed and responsiveness by 70%.

## LEADERSHIP / VOLUNTEERING

### Notion Campus Leader ↗: Leadership program to share, teach Notion effectively, and build strong campus communities through the creation of events and workshops on different technology topics.

### Google Developer Student Club ESCOM IPN ↗

- Participated as a speaker at the Hacktoberfest event giving a workshop on "How to create your first pull request" which attracted over 40 attendees, encouraging them to make their initial contributions to open-source projects.
- Taught an Android course centered on Jetpack Compose, which allowed students to gain hands-on knowledge and practical experience in the latest Android UI toolkit and the Kotlin programming language.

### IBM zSystems Student Ambassador ↗: Leadership program to promote IBM zSystems on campus by showcasing IBM zSystems technology. Obtained badges through learning on the Z Xplore platform, participated as an organizer and speaker at IBM Z events.

## AWARDS

- 3<sup>rd</sup> place in HackMéxico 2024 by AngelHack
- 3<sup>rd</sup> place, of 20 teams in Mega Hackathon Mexico 2023 by Vara Network
- 30<sup>th</sup> out of 40 in the 2022 Annual programming contest "Donald Knuth" at ESCOM

## SKILLS

**Programming Languages:** Proficient (3 years or more): Java, Python, Kotlin; Intermediate (About 2 years): C, C++, JavaScript, TypeScript; Beginner (1 year or less): Dart, Swift.

**Technologies:** Proficient (3 years or more): Git, GitHub, Linux, SQL, HTML5, CSS3; Intermediate (About 2 years): Microsoft Azure, Google Cloud Platform, Jetpack Compose, React Native, React JS, Firebase, Figma; Beginner (1 year or less): Django, Flutter.