

# Axel Daniel Padilla Reyes

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## EDUCATION

### Instituto Tecnológico y de Estudios Superiores de Monterrey

August 2022 – June 2026

*B.S. in Computer Science and Technology* | [Link to all courses](#)

*Guadalajara, Jalisco*

- GPA: 4.00
- Related courses: Object Oriented Computational Thinking (C++), Mathematics and Data Science for Decision Making (Python), Computational Modeling of Movement (Matlab).

## EXPERIENCE

### Flutter Intern

November 2022 – January 2023

*Nuclea Solutions*

*Remote – Guadalajara, Jalisco*

- Designed and developed a social media app, for mobile and desktop devices using FlutterFlow.
- Introduced a schema for the Firestore database, prioritizing scalability and real-time updates.
- Collaborated with more developers and managers to understand the requirements of the application.

### Freelance Web Developer

March 2021 – January 2023

*See projects*

*Remote*

- Designed and built websites for 8+ clients in Mexico, the United States, Canada, and India.
- Configured websites with custom domains and other integrations depending on the client's needs.
- Delivered a product with high satisfaction rates, maintaining a 5-star seller rating on [Fiverr](#).

## PROJECTS

### QOI Format Encoder/Decoder | Python

January 2023

- Implemented an encoder and decoder for the [QOI Format](#), offering similar size, 20x-50x faster encoding and 3x-4x faster decoding compared to PNG files.

### Transactions with facial recognition | Python, Flask, Firebase, React

September 2022

- Prototyped a payment system using facial recognition instead of a credit card number for determining the recipient's address in under 3000ms.
- Constructed the facial recognition backend with Python, opencv2, and Flask in less than 24 hours.
- Built a fullstack Next.js web application to demonstrate how the API can be consumed from the frontend.

### Race Director | Typescript, Next.js, Firebase

January 2022 – February 2022

- Launched a motorsport-themed web application where the community can write and publish in a collection of 400+ articles.
- Incorporated Google Analytics to understand and measure how users from 8+ countries use the website.
- Implemented server-side rendering in user-generated pages for high interactivity and SEO while keeping page loads below 1000ms.
- Structured an automated CI/CD deployment pipeline, enabling hot-fixes to be live in under 2 minutes.

## ACTIVITIES

### HackMTY | Third Place

September 2022

- Prototyped a system for banking transactions with facial recognition in less than 24 hours.
- Third place at HackMTY 2022, the largest student hackathon in Mexico.

### Mexican Mathematics Olympiad | Honorable Mention

September 2020 – November 2021

- Honorable Mention at the 33rd Mexican Mathematics Olympiad.
- First Place at the 23rd and 24th at the State Mathematics Olympiad.
- Participated at the 34th Mexican Mathematics Olympiad.

## TECHNICAL SKILLS

**Languages:** Javascript, Typescript, Python, C++, Rust, Matlab, HTML, CSS

**Other:** React, Tailwind CSS, Next.js, Zod, tRPC, Astro, numPy, pandas, matplotlib

**Developer Tools:** Git, Github, Vercel, Netlify, Railway, Firebase, Google Cloud Platform, VS Code