

# Hector Arroyo

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## EDUCATION

### Tecnológico de Monterrey

**Expected Graduation:** May 2026

B.S. in Computer Science and Technology

**Relevant Coursework:** Data Structures & Algorithms, Object Oriented Programming, Computational Mathematical Modeling

## RELEVANT EXPERIENCE

### Student Inclusion Network

January – May 2022

*Software Engineer and Content Manager*

- Coordinated and engineered structure of user-facing informative articles through TailwindCSS
- Developed programs to speed up and facilitate content delivery to a body of over **5,000** students
- Increased student engagement by **20%** by editing and publishing multiple articles on academic affairs

### Hearts '19

January – May 2021

*Software Engineer*

- Ensured secure payments and simplified user purchase interface by integration of Stripe API
- Increased customer engagement by **40%** through the implementation of a mailing list
- Assisted in generation of **\$500** in revenue destined to local heart disease charity

### Mathematics Tutor

September – December 2020

*Personal tutor*

- Arranged customized study plan for my student through informational interviews and insights into academic career
- Applied Socratic teaching methods to encourage development of logical and rational abilities
- Collaborated with the student in 50+ study sessions over the semester, and improved student performance from a D grade to B grade in 5 months

## PROJECTS

### Flanger | Next, React, Express (Node), PostgreSQL

- Implemented OAuth-based verification system to secure account information and prevent unauthorized user interactions
- Organized album information through LastFM REST API and ran usability tests to optimize content delivery experience
- Designed and built a REST API that stored and retrieved user reviews, ratings, and interactions linked to a managed ElephantSQL PostgreSQL AWS cloud database

## SKILLS

**Programming Languages:** Python, JavaScript, C++

**Frameworks / Technologies:** SQL, Linux, Git, VS Code, REST API Testing Platforms

**Work Eligibility:** Eligible to intern in the U.S. with visa extension and approval from The Tecnológico de Monterrey International Office