

# Mario Jiménez

COMPUTER SCIENCE STUDENT

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## Work Experience

### Cybersecurity intern

Jan 2020 - Jul 2020

GRUPO FINANCIERO BANORTE

Mexico City, Mexico

- Built a dashboard to help assess cybersecurity risks that affect the institution in a day-to-day basis using React
- Created several graph and hierarchy visualizations rendered by D3.js
- Developed Python scripts to clean and transform the data from Excel spreadsheets to a variety of JSON and CSV files for easier use in the web app
- Had a hands-on experience on how companies defend themselves against malware and other cyber-threats

## Education

### B.S. Computer Science and Technology

Aug 2018 - Exp. Jul 2022

TEC DE MONTERREY CCM

Mexico City, Mexico

- Currently in my fifth semester
- Participated as a TA on our Competitive Programming Club for a year
- Relevant courses: OOP, Data Structures, Databases, Operating Systems
- Major GPA: 96/100

## Software Projects

### Alvap Store Prototype

Fourth semester

A STORE PROTOTYPE WITH A REACT FRONTEND AND A EXPRESS AND SQLITE BACKEND

🔗/MarioJim/alvap-store

- Frontend developed using Create React App with TypeScript, styled components and react-router
- Backend based on Express routes, and using a SQLite database to make it portable and self-contained
- Written in TypeScript to improve readability through type checking
- Uploaded and hosted on a Heroku server

### Resume and Portfolio

Since third semester

LATEX PDF AND REACT APP COMPILED FROM THE SAME DATABASE

🔗/MarioJim/ResumeAndPortfolio

- Wrote TypeScript packages for compiling the data to a static React website and to .tex files
- Encapsulated my development environment within a Docker container so that it can be easily and exactly replicated with Visual Studio Code and the Remote - Containers extension
- Website hosted on GitHub Pages (mariojim.github.io)

### Cave Dungeon

Second semester

PROCEDURALLY GENERATED RPG WRITTEN IN JAVA FX

🔗/MarioJim/CaveDungeon

- Used Gradle to run, debug and test the game
- Implemented an algorithm to randomly generate map and room layouts
- Learned JavaFX to make a unique graphic interface

## Skills

<b>Languages</b>	Java (proficient), JavaScript (fluent), TypeScript, Rust, Python, C++, Dart
<b>Frameworks</b>	React, D3.js, Express, Flutter, JavaFX
<b>Tools</b>	Git, SQL (MySQL/MariaDB), Chrome DevTools

## Additional Experience and Awards

### Participated in ICPC's Gran Premio de México 2019

May, September 2019

MEXICO CITY, MEXICO

- First time competing in a programming contest
- Wrote mainly C++ but also learned the basic syntax of C and Python

### First place on Banorte's Challenge at HackMTY 2019

August 2019

MONTERREY, MEXICO

- Made an Android app prototype that accurately blocks phishing links and ads