

# Mario Jiménez

SOFTWARE ENGINEERING STUDENT

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## Work Experience

### Cybersecurity intern

Jan 2020 - Jul 2020

GRUPO FINANCIERO BANORTE

Mexico City, Mexico

- Built and deployed a dashboard to help assess cybersecurity risks that affect the institution in a day-to-day basis
- Created several graph and hierarchy visualizations rendered with the help of React and 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 their assets against malware and other cyber-threats

## Education

### B.S. Computer Science and Technology

Aug 2018 - Exp. Dec 2022

TEC DE MONTERREY CCM

Mexico City, Mexico

- Currently in my sixth semester
- Major GPA: 96/100
- Participated as a teaching assistant on our Competitive Programming Club for a year
- Relevant coursework: Object-Oriented Programming, Data Structures, Operating Systems, Analysis and Design of Algorithms, Programming Languages, Advanced Database Systems, Web Applications Development, Android Development, Software Quality and Testing, Computer and Information Security

## Software Projects

### Web application for Dauverre A.C.

Sept - Dec 2020

A WEB APP WITH SERVERLESS ARCHITECTURE USING FIREBASE

🔗/KevinTMtz/DauverreWeb

- My team and I developed an application with the objective of creating a platform where the relatives of the residents could consult reports on how the elderly were doing, in addition to publicizing the nursing home
- Frontend written in React with TypeScript, using Material-UI components and react-router-dom
- Executed concurrency and security-sensitive actions using Cloud Functions (Firebase's serverless framework)
- Took advantage of GitHub Actions to verify every pull request and also continuously deploy to Firebase's Hosting

### Resume and portfolio

Since September 2019

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 a PDF document
- Encapsulated my development environment within a Docker container so that it can be easily replicated and used with Visual Studio Code and the Remote - Containers extension
- Website automatically deployed and hosted on GitHub Pages (mariojim.github.io)

## Skills

**Languages** JavaScript/TypeScript (proficient), Python (fluent), Java, C++, SQL (MySQL/MariaDB), Rust, Go

**Frameworks** React, Express, D3.js, Flutter, JavaFX

**Tools & Platforms** Git, Docker, GitHub Actions (CI/CD), Firebase, Node.js, Heroku, Chrome DevTools

## Additional Experience and Awards

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

May, September 2019

MEXICO CITY, MEXICO

- Expanded my algorithms and data structures knowledge while applying it to many different problems
- Wrote mainly C++ but also learned the basics of C and Python

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

August 2019

MONTERREY, MEXICO

- Developed an Android app prototype that accurately blocks phishing links and ads
- Competed against about 100 teams in Mexico's largest student hackathon