

# Mario Jiménez

SOFTWARE ENGINEERING STUDENT

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## Experience

### Incoming Software Engineering Intern

January - March 2022

FACEBOOK

Remote

### Software Engineering Intern

June - August 2021

MICROSOFT

Remote

- Worked with the Field Service Mobile team from the Dynamics 365 division
- Developed and modified TypeScript modules used in React Native applications or in a web context
- Built an audio recording pipeline from recording an audio stream and encoding it using the Android NDK (C++)

### Cybersecurity Intern

January - July 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

TECNOLÓGICO DE MONTERREY

Mexico

- Currently in my seventh semester, with a 97/100 GPA
- Participated as a teaching assistant on our Competitive Programming Club for a year
- Relevant coursework: Data Structures, Operating Systems, Analysis and Design of Algorithms, Programming Languages, Advanced Database Systems, Web Applications Development, Software Quality and Testing

## Software Projects

### Web application for Dauverre A.C.

September - December 2020

A WEB APP WITH SERVERLESS ARCHITECTURE USING FIREBASE

🔗/KevinTMTz/DauverreWeb

- Developed an application where the relatives of the residents could consult reports on how the elderly were doing, in addition to advertising 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 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 image used to build the project in the CI pipeline
- Website automatically deployed and hosted on GitHub Pages (mariojim.github.io)

## Skills

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

**Frameworks** React, Express, Flutter, React Native, PowerApps Component Framework

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

## Additional Experience and Awards

### 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