

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. Jul 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