

Mario Jiménez

SOFTWARE ENGINEERING STUDENT

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Experience

Incoming Software Engineering Intern

Winter 2022

FACEBOOK

TBD

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, 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, Chrome DevTools

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