

BRANDON JOSUÉ MAGAÑA MENDOZA

Software Engineering Student

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Education

Instituto Tecnológico de Estudios Superiores de Monterrey

Graduating in Jun. 2024 (Expected)

B.S. in Computational Technologies Engineering | GPA: 98/100

Zapopan, Jal.

- "Líderes del Mañana" (7th generation): **Full-Ride Scholarship** awarded for leadership and community impact.
- Relevant Coursework: Data Structures & Fundamental Algorithms, Software Construction and Decision Making, Modeling of Multi-Agent Systems, Analysis of Software Requirements.

Experience

MLH Prep Fellow (*Major League Hacking*)

Mar. 2022 Remote work

- 3 week program focused on how to contribute to open source projects.
- Worked with a 20 people team to built a group portfolio and a weather web app.

MLH PE Fellow Summer 2022 (*Meta*)

May 2022 - Aug. 2022 Remote work

- Completed 12-weeks of structured curriculum-based learning covering core **Production Engineering** topics, supplemented with events / workshops hosted by industry experts
- Created an **open-source** web app using **Python, Flask, Jinja, MySQL, Nginx, and unittest**
- Automated testing and deployment workflows using **CI/CD**
- Set up system and container monitoring, alerting, and visualization using **Prometheus** and **Grafana**

Projects

LockIt! (*Smart Door*) | *Software Developer / Hardware*

- Worked on an **IoT** project that uses the **ESP8266** microcontroller and a **RaspberryPi** to allow managing and monitoring a front door in realtime.
- Built a friendly user interface using **React** and **Node JS** to make a dashboard **website** for interacting with the door and **monitoring** data collected in **realtime** by the sensors located at it.

IJALTI Peers (*Career Cluster Web App*) | *Backend Developer*

- Platform that connects IT professionals with job opportunities located at Guadalajara Metropolitan Zone
- Designed app's database and implemented it using **PostgreSQL**
- Developed **20 endpoints** using **Express, Typescript** and **typeorm** for getting, posting, deleting and updating app's data.
- Implemented **JWT** using **Firebase SDK**, for securing login and protecting endpoints to ensure correct data managment.

Food Bank App | *Software Developer*

- Developed a mobile app for Guadalajara's Food Bank using **Typescript** that promotes donation events and informs what are the products this organization is looking for ant their priorities based on the supply and demand of them.
- Design data base schema and implemented a **REST API** using **Django** framework.
- Built multiple **React Native** components that are used all over the app.

Technical Skills

Programming Languages: Python, C++, C#, Typescript, JavaScript, Java, MATLAB, Shell

Databases: Firebase, MySQL, PostgreSQL, MariaDB, MongoDB

Web Development: HTML, CSS, Bootstrap, Bootstrap, Express, Node, Django

Developer Tools: Docker, Git, Github, Unity, Unreal, Linux Terminal, VScode

Spoken Languages: Spanish (Native), English (Fluent)