

Brandon Josué Magaña Mendoza

Software Engineering Student

✉ magana.brandonswe@gmail.com

🌐 /BrandonMagana

in /brandon-magana

Education

Instituto Tecnológico de Estudios Superiores de Monterrey

Graduating in Jun. 2024 (Expected)

B.S. in Computer Science and Technology | GPA: 98/100

Guadalajara, MX

- Líderes del Mañana (7th generation): **Full-Ride Scholarship** awarded for leadership and community impact

Experience

Software Engineer Intern

Oct 2023 - Jan 2024

Google LLC. *Google Cloud Technical Infrastructure Team*

Sunnyvale, CA

- Designed and implemented a **database engine** using **C++** responsible for **monitoring, validating** and **managing** the entries of a critical internal **security database**.
- Developed a **CLI** tool that enables manual execution of database engine functionalities.

Software Engineer Intern

Jun 2023 - Sep 2023

Microsoft Corporation. *Azure Core Cloud Computing and Hosting Team*

Redmond, WA

- Migrated **Azure's rebooting service** from **Windows to Internal OS**, freeing up resources in host machines for client usage.
- Develop wrapper over **C++** Curl library to perform **HTTPS** requests with TSL/TCP certificate validation

MLH Production Engineering Fellow

May 2022 - Aug 2022

Meta

Remote

- Completed 12-weeks of structured curriculum-based learning covering core **Production Engineering** topics
- 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

IBM Strategic Dashboard (Web App) | *Python, PostgreSQL, Google Cloud Run, Docker*

- Built **CI/CD pipeline** for application backend on **Google Cloud Run**, automating deployment process using containerization (**Docker**) for staging and production environments.
- Implemented **Hexagonal architecture** in the application backend, enhancing **scalability, adaptability**, and component **decoupling**.
- Implemented authentication and authorization systems using **JWT** to secure user access and data.

IJALTI Peers (Web App) | *TypeScript, PostgreSQL, Express, React, Node.js*

- Created recruiting **web platform** for connecting IT professionals with job opportunities located in Guadalajara.
- Implemented and **designed SQL database** for the application using **PostgreSQL**
- Collaborated with the backend team to design and develop a **NodeJS** monolithic application, implementing **20 REST API endpoints** using **ExpressJS** and **TypeScript** for data management.

Technical Skills

Programming Languages: Python, C++, C#, Typescript, JavaScript

Databases: PostgreSQL, Firebase, MySQL, MongoDB

Developer Tools: Docker, Git, Linux Terminal, Neovim, Google Cloud, Azure

Languages: Spanish (Native), English (C1 Certificate)