Sergio José Vázquez Aguayo

SOFTWARE ENGINEER

Passionate about learning and contribute to society, being human first and professional after.

Contact information

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Skills

- **Strong experience:**
  - Python
  - GraphQL
  - SOLID, DRY, KISS
  - Dependency Injection
  - SQL
  - Docker
  - Javascript/Typescript
  - JSON/XML
  - NGINX
  - HTML & CSS
  - Git & GitHub
  - MVC - MVT
  - Agile methodologies
- **Soft experience:**
  - React JS
  - Node JS
  - Django / FastAPI
  - Svelte

Languages

Spanish - Native
English - Intermediate

Certificates

API Development - NODEJS
React Native Development
Graphic Design

Work experience

SOFTWARE ENGINEER - BACKEND

BEN & FRANK (GALILEO) - INTERNAL SERVICES TEAM (FINANCE, OPERATIONS)
February 2022 - Currently working

- Automation of financial and commonly used processes such as reconciliation of bank statements, reading and relation of information. (Python, SQL, XML)
- Design of models, queries, methods for the use of the API through GraphQL. (Python, GraphQL, Mongo)
- Data validations beyond business validations, to avoid corrupted, useless or unnecessary data. (Python, Mongo)
- Message queue management. (AWS SQS)
- Migrate modules to a new ERP version, abstracting requirements and using best development practices. (Abstract models, interfaces, SOLID principles, etc.)
- Project containerization to be used by DevOps in test, development and production environments. (Docker)
- Create unit tests with in-memory database (in-memory databases for testing can provide faster, more reliable and simpler testing environments, which can ultimately lead to more robust and higher quality software.)
- Code review, legacy code refactoring, use of modern development practices.

Impact: Improvement in the speed of processes, reduction of code cohesion, modernization of the system, implementation of good practices.
With the implementation of an SQS we are now more fault tolerant, since the queued messages are kept there in case the system crashes.
Ben & Frank is the biggest DTC eyewear brand in Mexico, with nearly 100 stores.

SOFTWARE ENGINEER INTERN

Centro de Desarrollo - Universidad Autónoma de Querétaro
June 2020 - July 2021

- Development of an Alexa Skill to get information about the Informatics Faculty of the UAQ. (NodeJS)
- Maintenance and continue development of Alexa Skill to practice the EXHCOBA exam. (NodeJS)
- Solve logic problems to develop the virtual assistant to practice the EXHCOBA exam. (NodeJS)

Impact: The workers of the informatics faculty could concentrate on other activities and less to answer calls with frequently asked questions.
Students with disabilities have an exam guide much more accessible.

Education

UNIVERSIDAD AUTÓNOMA DE QUERÉTARO

SOFTWARE ENGENIEERING
June 2018 - June 2022