

# Hector Olea

## Full Stack Developer

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📍 Aguascalientes, Mexico

## Key skills

### Soft skills

Teamwork, Problem-solving, Adaptability, Collaborative learning, Integrity, Motivation, and Responsibility

### Backend

Java, Spring Boot, Microservices, REST APIs, Python, Node JS, Oracle Database, PLSQL, Spring Data JPA, Apache Kafka, JUnit, Mockito, MongoDB, Maven, Gradle, Mocha, Chai, GraphQL

### Frontend

React + TypeScript, Redux, Hooks, HTML, CSS, Bootstrap, Jest, JavaScript, TanStack Query, Astro, Tailwind

### DevOps

Kubernetes, Docker, Github, Jenkins, Sonar, Bash scripting, GNU/Linux, CI/CD

### Monitoring

Graphite, Grafana, Xmatters, Spotlight, Service Now

### Misc

Agile, Scrum, Test Pyramid, Hexagonal Architecture, Test-Driven Development, Domain-Driven Design, SOLID Principles, Clean Code, DevOps

## Languages

**English** – Proficient

**Spanish** – Native/Bilingual

## Profile

As a Full Stack Developer with a DevOps mindset. I enjoy learning about new technologies, programming languages, frameworks, and software architecture.

I prioritize creating software that is highly maintainable and testable. My experience includes leveraging clean code principles, test pyramid, hexagonal architecture, DevOps practices, TDD, and DDD. Additionally, I am familiar with Agile methodologies like Scrum and Kanban.

## Professional Experience

### Professional development

Apr 2024 – present

I'm studying courses and books to enhance my full-stack development and software architecture skills.

### Software Engineer, IBM – D&B

Dec 2023 – Mar 2024

- ✓ Supported and maintained a Financial Analytics application.
- ✓ Attended incidents and tasks raised at ServiceNow.

### Full Stack Developer, IBM – Discover

Feb 2023 – Jul 2023 | Aguascalientes, Mexico

- ✓ Developed microservice to merge related customer database information given an SSN identifier.
- ✓ Added features to microservices responsible for storing cases and product information.
- ✓ Applied Sonar suggestions to existing microservices to improve the quality of the software components.
- ✓ Added init tests to existing microservices to further enhance the software components' quality.

### Full Stack Developer, Softtek – Walmart

Sep 2020 – Dec 2022 | Aguascalientes, Mexico

- ✓ Maintained, supported, and developed new features for 15 microservices created in Sprint Boot and NodeJS.
- ✓ Created bash and python scripts for daily basis support tasks.
- ✓ Migrated successfully to the Walmart Cloud Native platform, resulting in reduced costs, deployment time, auto-scaling, and improved maintainability.
- ✓ Migrated Event Hubs and Armory to Apache Kafka for more resilient services and to reduce missing events.
- ✓ Implemented fault-tolerant approaches for HTTP clients and databases.
- ✓ Reduced technical debts on microservices, ranking as the top team out of 100 in DevOps best practices.
- ✓ Learned about hexagonal architecture, test pyramid, clean code practices, and a DevOps mindset.

## Certificates

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Scrum Fundamentals Certified

Java EE 6 Web Component  
Developer Certified Expert

Oracle Certified Professional,  
Java SE 6 Programmer

## Education

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**Computer Systems Engineering,**  
Instituto Tecnológico de  
Acapulco  
2003 – 2008 | Acapulco, Mexico

## Courses

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**Microservices: Clean  
Architecture, DDD, SAGA,  
Outbox & Kafka**

**Java Developer Professional  
Certification Course 11 and 17**

**Master Java Web Services and  
RESTful API with Spring Boot**

**Apache Kafka for Developers  
using Spring Boot**

**Master Java Unit Testing with  
Spring Boot & Mockito**

**Master Hibernate and JPA with  
Spring Boot in 100 steps**

**Node with React: Fullstack  
Web Development**

**Go Java Full Stack with  
Spring Boot and React**

**React: From scratch to expert  
(Hooks y MERN)**

**TanStack Query: A powerful  
asynchronous state manager**

**GraphQL with React: The  
Complete Developers Guide**

**Astro: The framework for  
content-oriented websites**

**SOLID principles: Introducing  
Software Architecture & Design**

✓ Fixed critical vulnerabilities by upgrading the old spring boot version to the latest version, changing the docker-base images, and upgrading project dependencies.  
✓ Implemented an application authentication approach for creating, updating, and deleting endpoints for microservices using Service Registry and Service Mesh, and generated proper HTTP headers and authentication signatures.

**Site Reliability Engineer,** Softtek – Southwest Airlines  
Aug 2017 – Sep 2020 | Aguascalientes, Mexico

✓ Automated processes to reduce repetitive tasks for the operations team.  
✓ Developed Python and bash scripts to automate services, manage Grafana dashboard inventory, generate Monthly Reports, and send metrics to Graphite.  
✓ Developed a dynamic dashboard using Spring Boot and React JS to monitor Tivoli jobs and detect issues early.  
✓ Created REST APIs to automate incident management in Service Now.  
✓ Used an image recognition tool (Sikuli) to automate manual tasks for legacy C applications.

**Java Web Developer,** Softtek – General Electric  
2015 – 2017 | Aguascalientes, Mexico

✓ Maintained an application that can retrieve transactions from text plain files through FTP interfaces.  
✓ Supported and monitored a complex core made in Java that was processing more than 400k transactions once a month.  
✓ Tuned SQL queries and PL/SQL procedures in an Oracle database.  
✓ Implemented SQL Loader to quickly load and save thousands of transactions.

**Delphi/Visual Basic/Java Developer,** INEGI

Mar 2010 – May 2015 | Aguascalientes, Mexico

✓ Maintained the state and municipal database system (SIMBAD) which presented the census information from Mexico.  
✓ Developed a portable installer for the SIMBAD that could be used in multiple states of Mexico for sharing statistics.  
✓ Supported and maintained an interpreter of questionnaires, which was capable of loading XML definitions to create UI components, SQLite databases, and resources in real time.  
✓ Developed simulators to train the operative figures in the population census 2010 and trained and supervised the operative figures of the population and housing census.