ELISA RAMOS GOMEZ
SOFTWARE ENGINEER

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WORK EXPERIENCE

Software Engineer | Oracle 5G Industries ⬆
2023-2025
Remote

- Developed and maintained Grafana dashboards and Prometheus metrics, enhancing system performance monitoring and enabling proactive issue detection.
- Enhanced system reliability by applying SQL queries for data validation and testing while utilizing Unix scripting for automation, troubleshooting, and operational support.
- Redesigned CI/CD execution from sequential to parallel processing, developing in Python-based namespace manager to allow Kubernetes deployment reuse, reducing test execution time from 13 hrs to 4 hrs.
- Collaborated in service application migration to the Micronaut framework, adopting Java Reactive programming, which improved asynchronous processing and scalability, enabling 20% faster deployments while maintaining code quality and security best practices.

Leveraged technologies including Java 17, Python, Spring, Spring Boot, Micronaut, Unix, SQL, Helm charts, Kubernetes, Git, and CI/CD pipelines with GitLab. Additionally, utilized Postman for API testing and Podman/Docker for containerization and deployment.

Software Engineer Intern | Oracle Database VOS (Virtual Operating System) ⬆
2022 - 2023
Remote

- Conducted QA testing and automated test case development, improving release stability and reducing production defects.
- Resolved critical bug fixes to enhance network monitoring for dedicated server sessions, leveraging RDMA protocol for high-performance data transfer.
- Developed independent element management capabilities within the frontend, enabling components to register/deregister autonomously from backend processes-boosting application responsiveness by 40% during peak loads.

Software Engineer Intern | Enroute Systems ⬆
2022
Remote

- Development Front-end using HTML, CSS, JS.
- Development API RESTfull using Python, Django, Postgress, AWS IaaS, Dockers.

EDUCATION

Computer Systems Engineering, B.S. | Superior School of Computer Sciences (ESCOM IPN) ⬆
2018 - 2023
C**GPA**: **90** out of **100** (**3.6**/4)

- Graduated with honors for the Thesis Project "**Alzheimer's patients assistant**" Geolocation and Monitoring System
  - Designed and implemented an embedded system to track the location of Alzheimer's patients in real-time, utilizing an IoT module using C++ for geolocation data transmission.
  - Created a user-friendly mobile app for families and caregivers, enabling real-time location tracking and patient monitoring; mobile app development using Java and Kotlin, focusing on intuitive UI/UX design to ensure ease of use for non-technical users.
- Relevant courses: **C**omputer **G**raphics, **E**volutionary **C**omputing, **W**eb **A**pplications **D**evelopment, **C**ryptography.
- Scholarship **BEIFI** since 2019 for the **researches projects**:
  - "Embedded Web Server for monitoring in electrical micronetworks using IOT" and "Methodology for the pre-diagnosis of actinic keratosis".
- **Languages**: **S**panish (Native), **E**nglish (Proficient, B2), **F**rench (Elementary, A1).

PROJECTS

Notes Web App	| Docker, NextJS Frontend, NestJS Backend, Typescript, React, HTML, CSS.	**2025**
Financial Tracker	| Python, Jupyter Notebooks.	**2025**
Cryptography Library	| Python, Flask, HTML, CSS, JS.	**2023**
Serverless E-commerce	| Azure Cloud, JavaScript, MySQL PaaS, CSS, HTML.	**2022**
Signal Compiler	| Python3 with Remi, Wavio, Glob, PLY, NumPy API's.	**2021**

For a list with more projects that I realized with all my love, visit my portafolio: github.com/elissabj ⬆

LEADERSHIP - AWARDS

- **Mentor** of **OFMI** (Mexican Girls Olympiad in Informatics) supported high school students in their training for **EGOI** (European Girls Olympiad in Informatics) competition, 2025.
- **Awarded Women of Distinction FY24** for being one of the most influential women at Oracle 5G Industries, 2024.
- **Speaker** at the XXXVI International Symposium SOMECE 2023 Challenges of Education in the age of Artificial Intelligence, 2023.
- **1st place** in Oracle Code Recruting Contest, women's div. (6th place overall), 2022.
- **1st place** in Donald Knuth Contest, women's div. (7th place overall), 2022.
- **Founder** and mentor of Curies Community, 2021.
- **Mentor** and **participant** of my university **ACM Student Chapter / algorithm club** helping **+100 students** each semester for more than 3 years.

COURSES-APPRENTICESHIPS

- Participant in the **GDL/MX ICPC Training Camp** in 2022, 2023.
- Participant in **Quantum Winter School** in 2023.
- Participant in the **UNAM Summer Camp** in 2022.
- Participant in the **Training Argentina Virtual Camp** in 2020, 2021, 2022.
- Participant in the **Competitive Programming winter camp** in 2020.
- Participant 4th **IPN Competitive Programming Summer Camp** in 2019.
- **Udemy student** in technology, web, software development in general.

TECNOLOGIES

Azure Cloud, AWS IaaS, Oracle Cloud PaaS, Oracle Cloud IaaS, Kubernetes, Podman, Docker, Helm, Numpy, Behave framework, Spring, Spring Boot, Micronaut, React, NestJS, NextJS, Grafana, Prometheus, Android SDK, Unix/Bash, Linux, JIRA, Confluence, Quartus II, MPLABX, HTML, CSS, Git, MySQL, Postgresql, AutoCad, SolidWorks, Nautilus (financial Software).

PROGRAMMING LANGUAGES

Java: Basic App Development.
C++: mainly for competitive programming.
C: Oracle internship, Computer Graphics class.
Python: Evolutionary Computing, Neural Network, Cryptography backend.
C#: Distributed Systems, (E-commerce with Azure Cloud).
Q#: mainly for courses to explore Quantum IaaS in Azure.
JavaScript, Typescript: Distributed Systems, Cryptography.
Kotlin: Basic App Development.

HOBBIES ♡

Sommelier, Volunteering, Theology, Sing.