

# Uzziel Valdez Ordoñez

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## PROFESSIONAL SUMMARY

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Software Engineering student with experience building web applications, APIs, and data workflows using Java, Python, JavaScript, and TypeScript. Strong foundation in algorithms, object-oriented programming, and backend development. Fast learner focused on delivering efficient and scalable solutions.

## EDUCATION

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- Universidad Autónoma del Estado de México** Toluca, México  
*Bachelor's Degree in Software Engineering* August 2022 – January 2027 (Expected)  
**Relevant Coursework:** Object-Oriented Programming, Algorithms and Data Structures, Databases, Web Application Development, Data Science and Mathematical Foundations.

## EXPERIENCE

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- CrediFlexi** Metepec, México  
*Software and Data Engineer Intern* September 2025 – Present
  - Developed internal automation tools and data workflows using Python (FastAPI, Flask, Pandas), improving reporting speed and reducing manual processes.
  - Designed and implemented data analysis and reporting modules using SQL to enhance data visibility for internal teams.
  - Built and maintained web applications using JavaScript and TypeScript, contributing to features that improved operational efficiency.

## PROJECTS

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- ZonaSegura CDMX – React, TypeScript, Leaflet, Turf.js, Vite, Tailwind** June 2025 – October 2025
  - Built an interactive geospatial web application to visualize crime data in Mexico City.
  - Processed 808k+ crime records, optimizing 200MB+ CSVs into 30MB GeoJSON datasets.
  - Implemented heatmaps, 1km<sup>2</sup> risk zones, and dynamic filters by type, date, and location.
  - Added a citizen reporting system with map markers.
  - Applied performance optimizations (memoization, spatial sampling, lazy loading) for smooth rendering.
- Pharmacy Inventory Web Application – PHP, JavaScript, MVC, HTML, CSS** February 2025 – August 2025
  - Developed an inventory management system with authentication and CRUD operations.
  - Built a responsive interface that improved data accuracy and reduced manual inventory errors.
- Personal Portfolio Website – Next.js, React, TypeScript, Tailwind CSS** July 2025
  - Designed and built a responsive portfolio showcasing projects and technical experience.

## RELEVANT COURSES

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- CS50x:** Introduction to Computer Science – HarvardX
- CS50SQL:** Databases with SQL – HarvardX
- CS50AI:** Introduction to Artificial Intelligence – HarvardX
- CS50W:** Web Development with JavaScript and Python – HarvardX

## TECHNICAL SKILLS

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- Languages:** Java, Python, JavaScript, TypeScript, SQL
- Web:** HTML, CSS, React, Next.js (basic), Tailwind CSS
- Backend & Data:** Django, Flask, FastAPI, Pandas
- Tools:** Git