

# Jonathan Narvaez Sosa

Backend Software Engineer

Veracruz, Mexico | [jonathan.narv.sosa@gmail.com](mailto:jonathan.narv.sosa@gmail.com) | [LinkedIn](#)

## Summary

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Backend Software Engineer with experience developing backend applications using Python (Django) and Java (Spring Boot). Skilled in building REST APIs, backend services, and internal engineering tools while collaborating with cross-functional teams. Recently working on application modernization and system analysis tools involving graph-based architectures and modern frontend visualization.

## Technical Skills

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<b>Programming Languages</b>	Python, Java, TypeScript, C++
<b>Frameworks / Libraries</b>	Django, Spring Boot, React
<b>Databases</b>	Microsoft SQL Server, Neo4j
<b>Tools</b>	Docker, Git
<b>Skills / Methodologies</b>	Agile Development, AI-assisted software development

## Work Experience

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### Encora — Software Engineer

Oct 2024 – Present

Remote

- Developed a visualization platform using React Flow to map relationships between enterprise applications, generating dependency graphs from CMDB data to support system analysis and modernization efforts.
- Contributed to an internal application modernization accelerator that analyzes Java codebases using Neo4j graph databases and Cypher queries to extract architecture insights.
- Implemented backend services and analysis tools to support codebase exploration and architecture analysis for modernization initiatives.
- Contributed to the development of an internal application used to manage engineering trainees, implementing backend features with Java (Spring Boot) and frontend components using React and TypeScript.
- Containerized applications using Docker and collaborated with team members using Git-based workflows in an Agile development environment.

### Instituto Politecnico Nacional — Software Developer

Apr 2023 – Dec 2024

Mexico City

- Designed and developed a document management platform using Python and Django to support academic research validation workflows.
- Implemented role-based access and backend services to manage research submissions, document validation, and administrative processes.
- Built REST APIs and backend logic to support document review and validation workflows.
- Worked with SQL databases to store and manage academic research records.

## Certifications

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- [AZ-204: Developing Solutions for Microsoft Azure — Microsoft](#)
- [AI-Powered Software and System Design — Coursera](#)

## Education

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### BS Electronics and Communications Engineering

Instituto Politecnico Nacional

Graduate with specialization in communications (networking).