

Jose de Jesus Herrera Ledon

Software Engineer

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Experience

08/2022– **AI Software Engineer**, *Intel*, Remote

- 09/2025 ○ Developed and optimized AI frameworks for high-performance computing in TorchRec (DLRM2 and DLRM3 models).
- Implement a custom version of matrix multiplication framework for XPU optimization. (FBGEMM)
- Contributed to open-source projects
- VSCode extension development for Intel AI tools, enhancing developer experience to use IPEX in one click solution.
- Lead of Cloud Data Connector library, integrating with various cloud platforms.
- Design, develop and deploy PiPi cloud data connector library, supporting AWS, Azure and GCP.
- Mentoring and training of new engineers on SYCL and XPU - GPU optimization.

07/2021– **Senior Software Engineer**, *UMBA*, Mexico City

- 08/2022 ○ Developed and maintained web applications using Flask and TypeScript.
- Team lead of customer experience team, focusing on enhancing user engagement.
- Creating and maintaining RESTful APIs for transactions and data processing.
- Developed internal tools for data analysis and reporting.
- Developed customer experience tools, enhancing user engagement and satisfaction.
- Collaborate with financial and development teams to ensure compliance and efficiency.

11/2019– **Senior Software Engineer**, *Intel*, Guadalajara, Mexico

- 07/2021 ○ Developed software for quality and business intelligence.
- Design and implementation of data pipelines for large-scale data processing.
- Add Airflow workflows
- Design and migrate databases using OLAP cubes.
- Implement data visualization tools for real-time analytics with django.

10/2018– **Senior Software Engineer**, *Contpaqi*, Guadalajara, Mexico

- 07/2019 ○ Working in Research and Technology department.
- Developed innovative solutions for financial software.
- Create analytics for transactions and user behavior.
- Implement machine learning algorithms such as NLP for data analytics.

- 08/2016– **Team Lead Software Engineer**, *HCL Technologies*, Guadalajara, Mexico
- 09/2018
- Led a team of software engineers in developing enterprise ML applications.
 - Implemented Agile methodologies to improve project delivery.
 - Developed and maintained analytics applications.
 - Create tools to analyze and improve descriptions for US international Tariff Tables.
- 02/2015– **Software Developer CI CD**, *IBM*, Guadalajara, Mexico
- 08/2016
- Collaborated with several teams to implement CI/CD pipelines.
 - Developed analytics tools and dependency analysis for large codebases.
- 07/2014– **Software Developer**, *Hitts Technologies*, Guadalajara, Mexico
- 02/2015
- Developed and maintained enterprise applications using Java for IBM.
 - Work as L3 support for Rational Jazz Foundation.

Skills

Programming Python, Java, JavaScript, C++, SYCL

AI/ML PyTorch, TorchRec, NLP

Web Dev Django, TypeScript, FastAPI, Flask

Databases PostgreSQL, MySQL, MongoDB, Redis

Tools Docker, Kubernetes, Git

Cloud AWS, Azure, GCP

Other Linux, Agile Methodologies, CI/CD

Languages English, Spanish

Education

- 2008–2013 **Computer Engineer**, *Autonomous University of Mexico*, CDMX
View
- 2018 **Machine Learning From Data To Decisions**, *MIT Professional Education*
View Badge
- 2019 **Data Science and Big Data Analytics: Making Data-Driven Decisions**, *MIT XPro*
View Badge
- 2019 **Quantum algorithms for Cybersecurity, Chemistry and Optimization**, *MIT XPro*
View Badge
- 2019 **Quantum Computing Fundamentals**, *MIT XPro*
View Certificate
- 2019 **Introduction to Quantum Computing**, *MIT XPro*
View Badge
- 2025 **Intel Gaudi AI Accelerator**, *Intel*
View Certificate
- Current **Continuous Learning**, *Platzi*
View Courses