

Curriculum Vitae

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Location: Chihuahua, Chihuahua, MX.

Professional Profile

Computer Science graduate with experience in software development, process automation, and OCR optimization using Tesseract. Enthusiastic about artificial intelligence, distributed systems, and data processing efficiently. Able to work under pressure in high performance environments and solve complex problems with innovative solutions.

Education

Bachelor's degree in computer science engineering

Autonomous University of Chihuahua | June 2025

Professional Experience

Apprentice Developer | Encora Inc. | May 2025

- **End-to-end application design:** from requirements analysis to delivery, covering architecture, backend with Spring Boot, frontend with React, and API integration.
- **Backend and data processing:** Enhanced backend expertise ensuring APIs were scalable, test-validated, and ready to deploy.
 - Built REST APIs with validation, filtering, pagination, and business logic.

- Designed persistence layers and implemented data transformations, like metrics, currencies, and duration calculations.
- **Frontend and UX/UI development:** Improved user-facing layers with real-time searches, filtering and sorting, modals, and data-driven interfaces, ensuring clarity and responsiveness.
 - Developed reusable React + TypeScript components with state management.
 - Enhanced UX with dynamic filtering, validation, and conditional visuals.
- **DevOps & professional practices:** containerized stack with Docker Compose, applied Git workflows, and communicated technical trade-offs.
 - Created Docker images and orchestrated services with single-command startup.
 - Managed branches ensuring main is always production-ready.
 - Documented setup, APIs with README files and clear technical documentation.
- **API integration & security:** integrated external REST APIs, implementing OAuth2 authentication flows with token caching to optimize secure communication and reduce unnecessary calls.

Software Developer Trainee | BTSSC AutoZone | January 2023 – August 2023

- **Professional backend testing:** collaborated with senior programmers and architects to design robust test templates.
 - Built test databases with static SQL scripts and populated data dynamically for realistic DAO and business service validations.
 - Achieved high test fidelity by simulating production-like conditions.
- **DevOps & professional practices:** integrated workflows from Jira to GitLab and Jenkins for reliable delivery.
 - Used GitLab pipelines for compliance checks; resolved errors independently or escalated when pipeline setup adjustments were required.
 - Debugged build and dependency issues through Jenkins logs, securing stable deployments.
 - Created branches directly from Jira tickets, ensuring smooth merge requests and issue tracking.

- **Collaboration & communication:** actively participated in Scrum with 15-day sprints.
 - Reviewed ticket progress and coordinated production/development branch health in sprint meetings.
 - Ensured timely closure of tickets and alignment on upcoming sprint goals.
- **Testing strategy impact:** hands-on experience with realistic DAO and service-layer tests strengthened understanding of enterprise-level QA, bridging coding, SQL, and architectural collaboration.

Personal Projects

- **OCR Automation with CS-Script:** Developed a system to extract data from PDF documents using Tesseract with parallel processing.
 - Developed and implemented OCR systems with Tesseract for PDF processing in .NET and Python.
 - Created C# scripts for automation tasks.
 - **Process Automation with Power Automate & Excel:** Designed workflows to automate financial data management in a family business.
 - Connected email and OneDrive pipelines with Power Automate to collect invoices automatically.
 - Structured Excel workbooks to process, consolidate, and analyze billing data with minimal manual intervention.
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Certifications & Badges

- **Databricks Certified Data Engineer Associate** – *Databricks (2025)*
- **AWS Cloud Quest: Cloud Practitioner - Training Badge** – *(2025)*
- **Academy Accreditation - Databricks Fundamentals** – *(2025)*
- **AWS Cloud Quest: Generative AI Practitioner - Training Badge** – *(2025)*
- **Gen AI Training Path - Foundational** – *(2025)*

- **Java SE 8 Programmer I (1Z0-808) – Oracle** (*Preparation completed, exam not taken*)
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Habilidades

- **Lenguajes de Programación:** Java (8+), Typescript, C#, Python, Javascript, PySpark, SQL
 - **Frameworks y Tecnologías:** .NET, Spring Boot, SpringMVC, React, CS-Script, Tesseract OCR, Docker, Docker Compose
 - **Bases de Datos:** Oracle, MySQL, MongoDB.
 - **Herramientas:** Git, GitLab CI/CD, Jira, Jenkins, Databricks Lakehouse Platform, Delta Lake, Unity Catalog.
 - **Skills/Metodologies:** TDD, Scrum (sprints de 15 días), CI/CD, parallel computing, API development, Automation, Image processing & OCR
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Idiomas

- **Español:** Nativo
- **Inglés:** Intermedio-Avanzado