Alejandro CASTELLANOS ALVAREZ

Software Engineer | Application Developer IBM

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Focused on developing and solving mathematical models; I enjoy working in teams with people from different backgrounds and especially interested in machine learning and parallel programming.

EDUCATION

2021	**Master in Computer Science**, Tecnológico Nacional de México Campus Cd. Madero, Tamaulipas, México.
2018	**Engineering in Computer Systems**, Instituto Tecnológico de Cd. Madero, Tamaulipas, México.

EXPERIENCE

Present
November 2021

Application Developer, IBM,
Functional analyst, focused on the design and development of solutions for the industry with Agile methodology.

`Java` `Oracle PL/SQL` `Spring Boot` `IVR` `Eclipse` `Maven` `Git`

November 2021
July 2021

Application Developer, ACCENTURE,
Development, design and maintenance of technologies in line with business strategy.
  › Maintenance and updating of web components.
  › Functional analysis of requirements.

`Java` `Oracle PL/SQL` `WebDynpro`

August 2019
February 2018

Intern, LANTI-TECNM,
Configuration and adaptation of Institutional Repository for Tecnológico Nacional de México.
  › Adaptation and configuration of Dspace v6.3
  › Development of the Rest Api for repository statistics consumption.
  › Adaptation and configuration of the OAI interface.

`dSPACE` `JavaServer Pages (JSP)` `Flask` `Java` `Tomcat` `Python`

SKILLS

Programming	Java (JEE) , C/C++, R, Python , JavaScript , HTML5 , SQL
Frameworks	Spring Boot, Vaadin, JavaFX, dSpace, Flask, WebDynpro, OpenMPI, Weka
Database	Oracle Database, MySQL, PostgreSQL, MongoDB.
IDE	IntelliJ Idea, Eclipse , Visual Studio Code.
Middleware	Nginx, JBoss , Apache Tomcat.
Office automation	LaTeX, Pack Office(Word, Excel, PowerPoint).

</> LANGUAGES

Spanish ● ● ● ● ●
English ● ● ● ○ ○

✚ STRENGTHS

  › Autodidact
  › Analytical
  › Responsibility
  › Abstract thinking
  › Teamwork

🎓 CERTIFICATIONS

2022	AWS Certified Cloud Practitioner, Amazon Web Services Training and Certification, `https://www.credly.com/badges/d137c622-6e35-4373-8e9e-7787a0974597`)
2022	Enterprise Design Thinking Practitioner, IBM, `https://www.credly.com/badges/8068a3f0-f58d-40f2-8910-90931731dbdf`
2022	IBM Agile Explorer, IBM, `https://www.credly.com/badges/e3d18cec-6555-400a-9d49-7abcab309d47`

📖 PUBLICATIONS

2022	Castellanos A, Cruz-Reyes L, Fernández E, Rivera G, Gomez-Santillan C, Rangel-Valdez N. Hybridisation of Swarm Intelligence Algorithms with Multi-Criteria Ordinal Classification: A Strategy to Address Many-Objective Optimisation. Mathematics. 2022; 10(3):322.doi.org/10.3390/math10030322
2021	Castellanos-Alvarez A, Cruz-Reyes L, Fernandez E, Rangel-Valdez N, Gómez-Santillán C, Fraire H, Brambila-Hernández JA. A Method for Integration of Preferences to a Multi-Objective Evolutionary Algorithm Using Ordinal Multi-Criteria Classification. Mathematical and Computational Applications. 2021; 26(2):27. doi.org/10.3390/mca26020027

🎓 CONFERENCES

2021	Alejandro Castellanos-Alvarez, Laura Cruz, Hector Joaquin Fraire Huacuja, Claudia Gomez, Jose Alfredo Brambila-Hernandez, Nelson Rangel-Valdez and Jesus M. Velasquez-Bermudez. A multi-objective optimization method to estimate parameters of the COVID SEIMR/R-S model with a case study of Mexico. Numerical and Evolutionary Optimization September 08-10, 2021