# Nisim Hurst

## BI Solutions Developer

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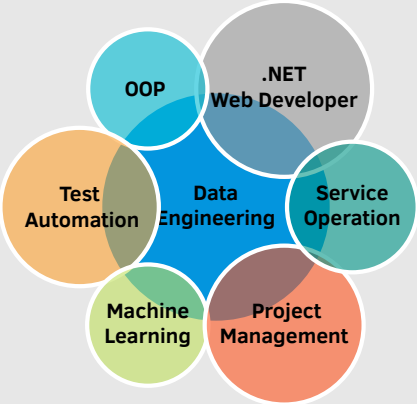
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langheran

## Skills

### Overview



### Programming

*Immature* ⟶ *Proficient*

C# • MSSQL • LaTeX

HTML5 • JS • Python

C++ • OpenCV • R • Octave

## Projects

**EDX Inbox** - Developer -in association with 9 other developers- of the EDX Inbox module; using AWS Lambda, Serverless plugin and pytest.

**EDX Versioning and Logging** - Sole developer of an inventory gathering module (Sign@versioning.exe) and a cross-cutting logging module (Monitoring) in Python, C#, AzureWebApps, MongoDB and AutoHotkey. Also developed many unit tests using Powershell.

**Alerts Front End** - Angular developer for FIWARE/ FINEXT project, in colaboration with computer vision based be-

## Education

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| 2017 - 2019 | **MSc., Computer Science** (GPA: 3.7/4.0) | Tec de Monterrey, Estado de México |
| 2004 - 2008 | **BEng., Electronic Systems Engineering** (GPA: 3.5/4.0) | ibid., Santa Fé |

## Research

**2017 - 2019**  **MSc. Candidate, Graduate Research Assistant** Tecnológico de Monterrey

**Thesis**: Parking Block Segmentation from a Surveillance Camera Perspective

- Proposed a scalable deterministic domain transformation method to reliably segment parking lots on the surveillance camera view using a satellite image of the same scene. The method is resilient to occlusions and point-of-view changes.
- Constructed a rich longitudinal dataset of more than 7000 polygons to segment parking lot structures (APKLOT).
- **Tools**: C++, dlib, cmake, OpenCV, labelme, Python, matplotlib, pandas

## Publications

N. Hurst-Tarrab, L. Chang and M. Gonzalez-Mendoza , "Recopilación de bases de datos de estacionamientos para aplicaciones en visión computacional," in Research in Computing Science, ISSN 1870-4069 2018, pp. 173-188, COMIA.

## Certifications

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|---|---|---|
| Abr 2022 - Abr 2024 | **GCP ML Professional** | |
| Nov 2013 - Nov 2022 | **Project Management Professional** | |
| Nov 2014 - May 2018 | **MCSD: Web Apps and SQL Server 2012** ID 1121457, Code 10541144 | |
| Sep 2016 - Present | **QlikView 11 Developer** Code: KGBmFovM | |
| Jan 2014 - Present | **ITIL Foundation V3 (syllabus 2011)** | |

## Experience

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| Aug 2022 - Present | **Fullstack Developer - Data Analyst** | NDS Cognitive Labs |

- Developed a candidate recommendation endpoint for a project called Fuga de Cerebros.
- Gathered a dataset to predict car prices.
- Built analytics and deployment infrastructure on GCP.

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| Jan 2021 - Aug 2022 | **Python Backend Developer - AWS DevOps** | EDX Solutions |

- Serverless developer for *EDX Inbox*. I must say that I integrated the project in a late period, i.e., just before Go-Live. The front was made by other members in React.
- ETL lambda task to integrate Mexico SAT blacklists' into indexed Mongo.
- Serverless developer for EDX Colombia-DIAN Payroll. Validation schemas in schematron.

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| Sep 2019 - Dec 2020 | **.NET Developer and Tester** | EDX Solutions |

- Quality testing in PowerShell 3.0 (CLR 2.0) and Jupyter with C# kernel. Developed over 100 tests to download and categorize production-ready input files, monitor long tests, stress-test in parallel and deploy new releases in the intended staging FS client environments.
- Developed a logging module to monitor documents' progress in our processing pipeline.
- Designed and developed a multinational inventory gathering module for the EDX xDoc core product (C#, Python, AutoHotkey). Since December 2020, this module and the Monitoring one have been productive in over 17 clients.
- Developed a single-page poor-man's AutoMapping module in Flask and Bootstrap for the xDoc (at the moment another team has taken charge to effectively integrate ML techniques)
- Flask Python-Tensorflow programmer at the MyZum project. Given the pandemic situation, this project was halted.

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|---|---|---|
| Jan 2017 - May 2019 | **Full-time graduate student** | Tecnológico de Monterrey |

- Took 10 courses in machine learning and algorithms.
- Main developer in building a realtime early-alert system on AngularJS using AWS EC2 and Docker for the FIWARE project.

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| Sep 2015 - Dec 2016 | **Business Intelligence Solutions Developer** | Ecolab Inc. |

- Developer of the QlikView dashboard for Latam's inventory management and other MS WebForms modules for uploading invoices. Designer of the data cubes and ETL package developer on SSIS and UC4.
- ServiceNow ticket tracking and integration with QlikView.

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| Aug 2013 - Aug 2015 | **.NET Web Developer** | Edenred |

- WebForms developer for product *Ticket Empresarial*. JS developer using custom controls and the observer pattern. WCF and SQL backend developer.
- Incidence and configuration manager using Team Foundation Server.

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| Oct 2009 - Aug 2013 | **Project Manager** | Grupo Zet Internacional |

- Project manager for implementing Intelisis ERP. Project leader and data analyst in Intuitive ERP implementation. MSSQL stored procedures developer. SSAS cube developer using the tabular model.
- MVC developer for an automated visitor tracking system using barcode technology and a hand recognition device. WinForms developer of an inventory management system that interacted with Intelisis ERP.
- *Como justificar económicamente la mejora de la calidad* and *Indicadores, revisión por la dirección y análisis de datos* courses.

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|---|---|---|
| Jan 2009 - Oct 2009 | **Delphi and .NET Developer** | Alvic, Barcelona |

- Developer of the device management communication module and other minor fixes.