

Nisim Hurst

Research Scientist



+52 155 10997027



langheran.github.io



langheran@gmail.com



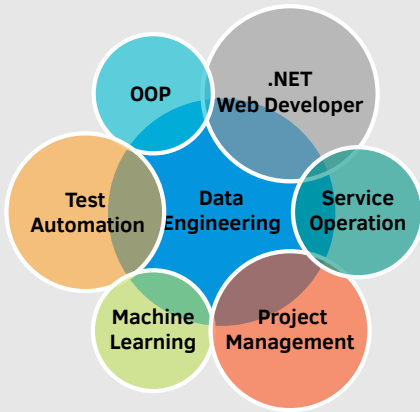
/in/nisim-hurst



langheran

Skills

Overview



Programming

Immature —————> Proficient

C# • MSSQL • \LaTeX

HTML5 • JS • Python

C++ • OpenCV • R

Projects

Alerts Front End - Main developer at the new Alerts module for FIWARE/ FINEXT project. The module is intended to interact with several computer vision based behavior detection algorithms using NGSI-compliant APIs.

Intelisis ERP - System for managing the entire operation of INTIMA, i.e. sales, shipping, manufacturing, managerial accounting, etc. The project manager was me.

Intuitive ERP - Project leader for the manufacturing submodule.

Education

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 (APKL0T).
- 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

Nov 2013 -
Nov 2022
Nov 2014 -
May 2018
Sep 2016 -
Present
Jan 2014 -
Present

Project Manager Professional

MCSD: Web Apps and SQL Server 2012 ID 1121457, Code 10541144

QlikView 11 Developer Code: KGBmFovM

ITIL Foundation V3 (syllabus 2011)



Experience

Jan 2017 -
Present

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 Angular using AWS EC2 and Docker for the FIWARE project.

Sep 2015 -
Dic 2016

Business Intelligence Solutions Developer

Ecolab Inc.

- Developer of the QlikView dashboard for Latam's inventory management and other MS WebForms modules. Responsible of designing the data cubes and master data management system. SSIS ETL package developer.

Ago 2013 -
Ago 2015

.NET Web Developer

Edenred

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

Oct 2009 -
Ago 2013

Project Manager

Intima

- 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.

Jan 2009 -
Oct 2009

Delphi and .NET Developer

Alvic, Barcelona

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