

Nelson Vides Luzardo

SOFTWARE ENGINEER

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nelson-vides | 📱 nelson-vides-luzardo-028aa214b/



“Getting out of my comfort zone.”

Skills

Programming C/C++, Visual Basic, Standard ML, C#, LaTeX
Projects Arduinos, VBA Parsers
Languages Spanish, English, Polish, Italian

Experience

IBM BTO Services Polska

Kraków, Poland

AUTOMATION PROCESS DEVELOPER

Nov. 2017 - PRESENT

- Development of automation tools for the finance sector by means of scripting languages.
- Introduced a reassessment of the team practices and quality standards.
- Exposed ERP APIs, implemented wrappers around Citrix and Cisco streaming services in C++.
- Developed code standards, promoted design patterns and a Test-Driven Design approach.

IBM BTO Services Polska

Kraków, Poland

ACCOUNTANT AUTOMATION

Feb. 2017 - Oct. 2017

- Responsible for the Accounts Payable department of our client's Spanish section.
- Developing VBA Automation tools to improve efficiency of the reporting processes saving up to 8h a week per country cluster.

Profilingua and K&K Language Schools

Kraków, Poland

SPANISH TEACHER

Sept. 2016 - Feb. 2017

- More than 200 students who improved their skills and passed a diversity of certifications.

Extracurricular Activity

Embedded Projects

home, Kraków, Poland

DEVELOPER AND MAIN LEARNER OF THE DAY

Dec. 2017 - PRESENT

- In process of creation of a series of controllers to monitor the weather conditions in and out the house, listen to orders sent by GSM, keep track of scheduled events. This has been the project around which many things have been revolving.
- When facing timing responsiveness issues, I had to discover the concept of hardware interrupts.
- When facing the implementation of a screen view for the system, I got involved into UI design patterns.
- When facing memory size limitations, I had to delve into bitwise operation, compiler flags, and runtime calling conventions.
- Every new challenge means an opportunity to devour a new book, which that alone has made this project very fruitful.

Programming Languages

Coursera

MENTOR STAFF

Jan 2018 - PRESENT

- After having completed, this course on Abstract Programming Languages with the highest marks, I was selected to mentor.
- Studied Type Systems, Closures, Abstract Syntax Trees, Language implementations, Type Safety, Introduction to λ -Calculus, a comparison between the Object-Oriented Paradigm against the Functional one.
- Implemented a REPL in a Lisp language for a hypothetical language with closures.
- Implemented a Type Inference machine for Standard ML, in Standard ML.
- Implemented a Tetris game in Ruby using Object-Oriented design.
- Giving support to new students, participating in the forums and writing articles to promote curiosity and participation, and solving their doubts.

CS50 by Harvard

edX

STUDENT

Mar. 2017 - May. 2017

- Perhaps the official beginning of the Computer Sciences quest. By one of the best Computer Sciences instructors out there.
- Introduction to algorithms, data abstractions, machine architecture.

Other Materials

home, Kraków, Poland

STUDENT

May 2017 - PRESENT

- Constantly checking materials Universities are publishing for free.
- Languages: semantics, lambda calculus, compilers (Delhi and Washington University materials).
- Algorithms and Data Abstractions (Stanford's CS106B).
- Computer Architecture: Von Neumann and Harvard Architecture, the almighty Stack (Jerusalem University).
- Software Design: Design Patterns, Test-Driven Development (by involvement into Rubberduck's VBA project on GitHub).

Education

Instytut Cervantesa w Krakowie

Poland, Kraków

CERTIFICATE IN SPANISH LANGUAGE PEDAGOGICS

Sept. 2015 - Dec. 2015

- Learnt about the theory behind Public Speech, Group Dynamics, and Skills Learning.

Universidad Complutense de Madrid

Madrid, Spain

STUDIES IN PURE AND ABSTRACT MATHEMATICS

Sept. 2010 - Jan. 2015

- Honour Grade in General Topology. Mentions of Excellence in Algebra, Geometry and Set Theory.
- Acquired the habits of the mathematicians: it's not true until you prove it, there-is-always-a-better-way way of thinking, and taste for abstractions.
- Interests in classification problems and pattern laws.

I.E.S. Luis de Lucena

Guadalajara, Spain

SCIENCES BACCALAURATE

Sept. 2008 - May. 2010

- Performant in Philosophy, Physics, Mathematics and Biology.
- Time has shown me that high-school was a lot more valuable than I thought back then. To this day, I don't see a red moon in the horizon, I see a refracted electromagnetic field stimulating cone cells which release a chain of sodium-potassium reaction along a neural axon.

Presentation

Hooking DLLs for more available functionality

Kraków, Poland

IBM BTO SERVICES POLSKA

Mar. 2018

- On the quest for further improvement, I discovered I could wrap around client's DLLs to take advantage of their undocumented functionality.
- After implementing these wrappers, I presented to my team the source code and talked about how to implement this possibility.

Interfacing to new Libraries

Kraków, Poland

IBM BTO SERVICES POLSKA

Feb. 2018

- After noticing a gap for improvement in my team's practices, I discovered a series of available libraries to take advantage of.
- Presented to my team, in an entertaining fashion, a series of COM compliant binaries easily callable from VBA and VBS, to better take control of ERP systems and local Databases.

Regional Public Library of Kraków









Kraków, Poland

CULTURAL EVENTS

Oct. 2015 - Jun. 2016

- Realisation of periodic events around the Spanish Language and Culture.
- Challenged my organizational and social skills, learned a lot about now only my culture but that of other people.

Most Proud Of

- | | | |
|---------|---|-----------------------|
| 2012 |  Mention of Excellence: Linear Algebra, honoured to have had an amazing teacher. | Madrid, Spain |
| 2014 |  Honour Grade: In the Subject of General Topology in Abstract Mathematics. | Madrid, Spain |
| 2014 |  Karate Black Belt: My life-long lesson. | Madrid, Spain |
| 2015 |  English Certificate: From A2 to scoring 196/210 CAE exam in two years. | Madrid, Spain |
| 2015 |  My first Bike Trip: 3400km without having cycled before. | Germany & Poland |
| 2016 |  My tenancy: A second bike trip over the most mountainous regions. | France, Swiss & Italy |
| 2015-18 |  Learnt Communicational Polish: czy to nie supermoc? | Kraków, Poland |
| 2017-18 |  Became a Software Developer: In less than a year of the hardest work of my life. Yet not enough. Never enough. | Kraków, Poland |