

Alejandro Villa

Full Stack Developer & Architect Junior

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EDUCATION



Instituto Tecnológico y de Estudios Superiores de Occidente (ITESO)

Bachelor in computer systems engineering

GPA: 9.45/10

PROFESSIONAL EXPERIENCE



IBM Cloud Garage (March 2017 - Present):

I am currently working at Guadalajara's IBM Cloud Garage as a full stack developer and IOT specialist, among my numerous activities, I am involved mostly in the development of MVPs for external and internal customers with Flask, NodeJs, React, Angular and cloud technologies such as Cloud Foundry, Docker, Openshift, Openwhisk, Kubernetes and more. I'm starting the path to become a Software Architect.

ITESO Subject Professor (August 2020 - Present):

I started working at university ITESO as a Subject Professor giving 2 courses the first one is Algorithms and Programming where I teach the students how to design an algorithm, make the pseudocode with the flowchart and develop it with the programming language Python. The other course is Cloud Computing where I teach the basics of the cloud service models (IaaS, CaaS, PaaS, FaaS) in AWS and IBM Cloud, I also teach the basics of Docker, DevOps, SOA Architecture, Micro-Service Architecture and Monolithic Architecture.

HPE Labs (February 2016/November 2016):

I worked as an embedded software developer of IOT technologies at HPE Labs, I was involved in the development of a sensor driver and wireless communication that aimed to recognize when a car falls into a bump, I designed and developed this data processing app with Python, C, Redis, MQTT and a RPI 3.

BIOSKINCO Company (Freelancer) (September 2014/May 2015):

Designed and developed an Inventory control System.

SKILLS



Angular:latest	Openshift	IBM Cloud	Orator
React	Python	SQL DB	Swift Junior
Redux	DevOps	NoSql DB	Terraform
NodeJs	Git	TDD	Docker
Kubernetes	IoT	Agile	AWS

ADDITIONALS PROJECTS



Cognitive Stand

Development of solution that uses IoT, Twitter, Cloud and Watson. This tool gets real time data from Twitter and using Watson NLU analyzes the text, to turn different LEDs lights according to the tone of the tweet and store the data into a graph data base for post analysis.

Cognitive Trash

Development of solution that uses IoT, Raspberry pi, IBM Cloud and Watson. This tool helps people to recognize what kind of trash they are dropping at the trash can and with cognitive services, the trash can turn on a led strip to show in which one they need to drop it.

Gotcha sentry gun

Developed a gotcha sentry gun using Freedom board K64 and embedded C, the gotcha gun aims at when detect movement and shoots automatically, it can be controlled with a cellphone too.

BlindTyping

Developed a system that helps blind people to learn typing in the computer.

REFERENCES

Iván Jauregui	Manager at HPE	33 1232 0808
Josef Grenz	Team Lead at IBM	33 3814 9541



OTHER INFORMATION



- I got my high school diploma at Père-Marquette in Montreal, Qc. Canada, there I learned French.
- Spanish (Native)
- English (B1)
- French (B1)
- I'm constantly improving myself, through the learning of different skills that I should acquire to develop the different MVPs and Projects I work on.
- I'm a technical facilitator at IBM Garage and one of my most remarkable contribution was the workshops that I gave at the Jalisco's Talent Land 2018-19, that is one of the biggest innovation and technology event in Mexico.
- I am proud to say that in HPE I won an internal competition where all the Guadalajara's site interns participated, in this competition we presented all the work that we had made in that year.
- I started creating and uploading some videos to Youtube teaching how to deploy applications to some cloud providers and how to develop mini applications with containers.
- <https://www.youtube.com/enjoyableprogramming>