

JULIO ANGULO

RESEARCH ENGINEER 📍 MEXICO CITY, MEXICO ☎ +52 6671015436

◦ DETAILS ◦

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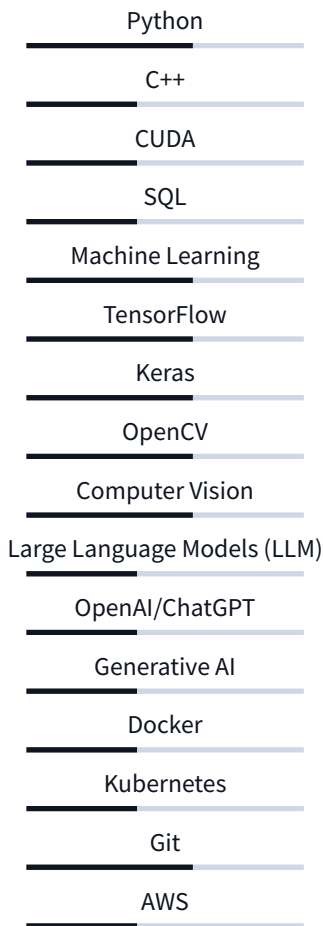
◦ LINKS ◦

[Research Accomplishment](#)

[Linkedin](#)

[Project Portfolio](#)

◦ SKILLS ◦



◦ LANGUAGES ◦

Spanish

English

◦ HOBBIES ◦

Read books, watch movies, hiking,
and take a walk with my dog.



PROFILE

Mechatronic Engineer and MSc in Engineering with knowledge in many programming languages, technologies, and methodologies (SCRUM), allowing me to be flexible and reliable. I speak Spanish and English; my level of the language allows me to communicate effectively in English.

My main skills include:

- * Experience in Research Teams (research, evaluate, and implement novel ML projects).
- * Machine Learning, Deep Learning, and Computer Vision with C/C++, Python, Tensorflow, Tensorboard, Keras, OpenCV, and CVAT.
- * Experience in containerization (Docker, Kubernetes).
- * Cloud Computing using AWS (S3, EC2, CloudFront, and, Route53).
- * Parallel Computing/HPC using NVIDIA GPUs and CUDA.



EMPLOYMENT HISTORY

Research Engineer at Softserve, Mexico City

May 2022 — Present

PROJECTS:

1) TinyML/IoT

- **Description:** Implement tiny Machine Learning algorithms on low-power embedded systems with limited resources (RAM, Flash, and energy consumption).

- **Tool and Technologies:** ESP32, C/C++, Python, OpenCV, TensorFlow, TensorFlow Lite for Microcontrollers (TFLM), Keras, TensorBoard, Machine Learning, TinyML, Git/Gitlab.

2) Candidate evaluator using ChatGPT

- **Description:** Implement a tool to help a Recruitment Department on evaluating candidates for vacancies given by the user.

- **Tool and Technologies:** OpenAI, ChatGPT, RAG, MySQL, GenAI, LLM.

Video Software Engineer at Brightcove, Guadalajara Jalisco, Mexico

December 2019 — May 2022

PROJECTS:

1) Cloud-Based VOD and Video Streaming Service.

- **Description:** He was part of the development and Support Team of a Cloud-Based VOD and Video Streaming Service.

His responsibilities were: Development and adding new features to the VOD pipeline, fixing bugs and attending customer requests, deployment to QA, Staging, and Production, 24/7 On-Call, Participate in evaluating and creating new tasks as part of the SCRUM methodology.

- **Tool and Technologies:** Golang, AWS, Docker, Kubernetes, Sumologic, Datadog, TeamCity (CI/CD), Terraform, Spinnaker, FFMPEG, Git/GitHub.

Embedded Software Developer at Altran, Guadalajara Jalisco, Mexico

May 2019 — December 2019

PROJECTS:

1) Automotive Project

- **Description:** He was part of a Development Team in the Automotive Industry, specifically, for the cluster MCU. His responsibilities were: Fix bugs, add new features to the cluster MCU and document it.

- **Tool and Technologies:** C/C++, Matlab/Simulink, CANoe, CANalyzer, JIRA, Git/GitHub.

Software Developer at Intersys Consulting (now Apex Systems), Guadalajara Jalisco, Mexico

November 2017 — May 2019

PROJECTS:

1) eCommerce Project

- **Description:** He was part of the development and support team of a website dedicated to online commerce. His responsibilities were: to release new features, fix bugs, and participate in creating new tasks, and daily stand-ups as part of the SCRUM methodology.

- **Tool and Technologies:** ReactJS, MongoDB, Angular, ROR, Docker, Git/Github.



EDUCATION

MSc, National Technology of Mexico, Culiacan Sinaloa, Mexico

August 2014 — April 2017

His research interests are parallel processing based on GPU platforms, High-Performance Computing (HPC), Instrumentation, and Digital Signal Processing.

And, experience in multi-thread architectures/programming (NVIDIA GPUs using CUDA C), parallelization techniques, and performance analysis in terms of memory requirements, execution time, speedup, and absolute and relative errors.

Bachelor's in Mechatronics Engineering, National Technology of Mexico, Culiacan Sinaloa, Mexico

August 2008 — July 2013

Robotics, Control Theories, Electronics, Automation, Mechanical Design, Embedded Systems, Microcontrollers, FPGAs



COURSES

Generative AI for Machine Learning Engineers, Google Cloud Skills Boost

December 2023

Building and Evaluating Advanced RAG Applications, DeepLearning.AI

December 2023

Introduction to Generative AI, Google Cloud Skills Boost

November 2023

Generative AI for Everyone, DeepLearning.AI

November 2023

Neural Networks and Deep Learning, Coursera

May 2021

- **Docker Mastery: with Kubernetes +Swarm from a Docker Captain, Udemy**
January 2021
- **Beginning C++ Programming - From Beginner to Beyond, Udemy**
November 2020
- **CI/CD with TeamCity From Beginner to Advanced, Udemy**
August 2020
- **Getting Started with AI on Jetson Nano, NVIDIA**
February 2020
- **Machine Learning, Coursera**
April 2019