



# RÉSUMÉ



艾怡華

## EVA VIRGINIA ARÉVALO RIVARA

HSINCHU CITY, 300 · TAIWAN · [93.EVAR@GMAIL.COM](mailto:93.EVAR@GMAIL.COM)

Passionate Software Research and Development Engineer striving to incorporate Machine Learning to the workflow of real-world tasks and add value to software by improving on its performance, efficiency and expeditiousness. Hands-on experience implementing Machine Learning solutions for different areas, including **Facial Recognition, Face Attribute Prediction, Object Detection and Tracking, Dynamic Pricing, Skin Texture Analysis**, etc. Experience developing end-to-end pipelines for machine learning solutions including: data collection using web crawler tools (Selenium), model training using **Machine Learning/Deep Learning**, integration into real-time applications and deployment into different platforms (REST service through Docker container, python packages or scripts, compiled shared .so libraries). Experience managing and deploying to edge devices (**Raspberry-Pi, Jetson Nano, RK3288**). Experience in the following areas: **Image Processing, Computer Vision, Natural Language Processing, Data Mining, Data Analysis**.

1+ year experience as a Software Research and Development Engineer in the following areas:  
**Computer Vision, Machine Learning, Software Development, Data Mining.**

3+ years experience developing in Ubuntu.

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## EDUCATION

### NATIONAL TSING HUA UNIVERSITY

September 2018 - August 2020

#### MS. IN COMPUTER SCIENCE

HSINCHU CITY, TAIWAN

Research work performed under the guidance of Prof. Chen Yi-Hsin. Focused on the application of Machine Learning techniques to detect Manic Episodes in Bipolar users in Social Media Platforms.

GPA: 4.27

### NATIONAL TSING HUA UNIVERSITY

September 2014 - June 2018

#### BS. IN COMPUTER SCIENCE

HSINCHU CITY, TAIWAN

### NATIONAL TAIWAN NORMAL UNIVERSITY

September 2013 - August 2014

#### INTENSIVE MANDARIN STUDIES

TAIPEI CITY, TAIWAN

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# SKILLS

## PROGRAMMING LANGUAGES

C, C++, Python, Java, SQL, MySQL, MATLAB, Arduino, Verilog

## MACHINE LEARNING & AI ML/DL TOOLS &

- ✓ Natural Language Processing (NLP)
- ✓ Data Science
- ✓ Data Analysis
- ✓ Computer Vision
- ✓ CNNs, RNNs, LSTMs, GANs
- ✓ Clustering
- ✓ Classification / Linear Regression
- ✓ Time Series Analysis
- ✓ Genetic Algorithms (GA)
- ✓ Pattern Recognition

## FRAMEWORKS

- ✓ Tensorflow / Keras / Tensorhub
- ✓ Pytorch
- ✓ Deep contextual representations (ELMo, BERT)
- ✓ Scikit-learn(SkLearn) / Scikit-image(SkImage)
- ✓ OpenCV

## MISCELLANEOUS

- ✓ Ubuntu
- ✓ MySQL / PostgreSQL / mongoDB
- ✓ Github
- ✓ Docker
- ✓ Azure CLI
- ✓ CUDA
- ✓ Arduino
- ✓ JNI

## WEB DEVELOPMENT

- ✓ HTML5 / CSS / JavaScript
  - ✓ NodeJs / Flask
  - ✓ React / Bootstrap
  - ✓ Amazon Web Services (AWS) EC2, S3, RDS
  - ✓ Web visualizations with d3.js & Neo4j
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# WORK EXPERIENCE

## CORETRONIC INTELLIGENT CLOUD SERVICE (CICS)

November 2020 - Present

### SOFTWARE R&D ENGINEER (前瞻軟體研發處)

HSINCHU CITY, TAIWAN

Software R&D Engineer, with a focus on Computer Vision. Develops software solutions for emerging requirements, including prototyping and packaging software as well as handling early stage deployment to both cloud platforms (Microsoft Azure) and edge devices, such as: RaspberryPi 4 (both on Raspbian OS and Ubuntu for RPI), Jetson Nano, Rockchip RK3288.

The scope of the responsibilities for this position encompasses (but is not limited to): surveying state of the art for relevant techniques/technologies, conducting feasibility studies, adapting and tailoring machine learning solutions to specific needs/scenarios, implementing and testing the latter as well as benchmarking performance, deploying, managing and maintaining Microsoft Azure resources (Docker container).

Specific projects heavily involved in include:

- a. Real time face detection and recognition
- b. Real time masked face detection and recognition
- c. Real time gender and age prediction
- d. Object detection and tracking
- e. Skin texture analysis through Image Processing Techniques
- f. Dynamic pricing through Machine Learning/Deep Learning
- g. Hair segmentation and coloring

Programming languages used in the above-mentioned projects: Python, C++, Java. Technologies and frameworks used during the development of the above-mentioned projects include: Pytorch, TensorFlow, Docker, OpenCV, Scikit-learn (sklearn), JNI, MediaPipe, OpenVino.

## **NATIONAL TSING HUA UNIVERSITY**

September 2019 - January 2020

### **TEACHER ASSISTANT**

HSINCHU CITY, TAIWAN

Teacher Assistant for the Data Mining: Concepts, Techniques, and Applications course, offered by Prof. Chen Yi-Hsin, National Tsing Hua University, Institute of Information Systems and Applications (ISA 5810, Fall 2019).

## **NATIONAL TSING HUA UNIVERSITY**

February 2019 - June 2019

### **TEACHER ASSISTANT**

HSINCHU CITY, TAIWAN

Teacher Assistant for the Data Structures course offered by Prof. Chen Yi-Hsin, National Tsing Hua University, Computer Science Department (CS 2351, Spring 2019).

## **EMBASSY OF CANADA**

July 2013 - August 2013

### **IMMIGRATION PROGRAM REGISTRY CLERK**

GUATEMALA CITY, GUATEMALA

Assisting and expediting the processing of visa applications. Managing and maintaining the storing of visa applications. Performing general office administration duties.

## **EMBASSY OF CANADA**

June 2013 - June 2013

### **RECEPTIONIST AND SWITCHBOARD OPERATOR**

GUATEMALA CITY, GUATEMALA

Greeting, welcoming and announcing visitors to the Embassy of Canada in Guatemala. Receiving and forwarding incoming calls. Providing information and guidance. Performing general administration duties.

# TELUS INTERNATIONAL

October 2011 - March 2013

## CUSTOMER SERVICE REPRESENTATIVE (FRENCH LANGUAGE DIVISION)

GUATEMALA CITY, GUATEMALA

Customer Service Representative for online game platform Zynga. Assisting and providing information to customers.

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# LANGUAGES & SOFT SKILLS

## LANGUAGES

- ✓ **Spanish** - Native Proficiency
- ✓ **French** - Native Proficiency
- ✓ **English** - Native Proficiency
- ✓ **Chinese** - Professional Working Proficiency
- ✓ **Japanese** - Beginner Proficiency

## SOFT SKILLS

- ✓ Likes to keep learning and improving her skill set
  - ✓ Highly motivated to grow expertise
  - ✓ Strong sense of responsibility
  - ✓ Aims for efficiency and excellency
  - ✓ Good Organizational Skills
  - ✓ Pragmatic approach
  - ✓ Flexible
  - ✓ Adaptable
  - ✓ Proactive
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# LICENCES & CERTIFICATES

## MICROSOFT CERTIFIED: AZURE DATA SCIENTIST November 2021

### ASSOCIATE

#### MICROSOFT

TAIPEI CITY, TAIWAN

Manage Azure resources for machine learning, run machine learning experiments and train models on Azure Machine Learning platform, deploy machine learning solutions. ([Credly badge link](#))

## TEST OF CHINESE AS A FOREIGN LANGUAGE May 2014

### CERTIFICATE (TCFL)

#### MINISTRY OF EDUCATION, TAIWAN

TAIPEI CITY, TAIWAN

Obtained a Level 3 Certificate for the Test of Chinese as a Foreign Language

## LEGAL TRANSLATION CERTIFICATE (ENGLISH- Decemer 2012

### SPANISH)

#### MINISTRY OF EDUCATION, GUATEMALA (MINEDUC)

GUATEMALA CITY, GUATEMALA

Authorized by the Ministry of Education , Guatemala to provide legal translation and interpretation services (Spanish-English).

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**Eva-Virginia-Arevalo-Rivara---Resume** is maintained  
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