Samuel Perez | Resume

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Computer Science Engineering graduate from National Tsing Hua University. Passionate about science, with good technical, business, and interpersonal skills for working in a team and successfully completing a project.

Education

Academic Qualifications...

National Tsing Hua University		**Hsinchu, Taiwan**
Institute of Information Systems and Applications		*December 2022*
National Tsing Hua University		**Hsinchu, Taiwan**
B.S. in Computer Science Engineering		*June 2018*
Galileo University		**Guatemala C.A.**
B.S. in Technology and Telecommunication Administration		*June 2011*
Galileo University		**Guatemala C.A.**
B.S. in Computer Science Teaching		*December 2010*
The Sisters of Mary School-Boystown		**Guatemala C.A.**
High School Education with Technical Orientation in Electricity and Welding		*November 2008*

Employment

Programming Projects   **Hsinchu, Taiwan**
Software Developer   *2015–Present*

Have worked on different projects including Web Development, IoT, Embedded Systems, Computer Vision, Natural language processing (NLP), Machine Learning, Deep Learning and others.

Cathay General Hospital   **Taipei, Taiwan**
Chinese-Spanish Assistant (Interpreter)   *August–October 2016*

I spent some time working as an interpreter providing assistance to the hospital IT engineers while a group of Latin America trainees were developing a Hospital Management System.

The Sisters of Mary School-Boystown   **Guatemala C.A.**
School Librarian and Teacher   *April 2009–December 2010*

I was responsible for the administrative duties of the library such as the book loans, returns, inventory and general order of the site. As a teacher I provide assistance to other teachers when they were absent, at the same time teaching an 'Industrial Electricity' class to junior high school students.

Technical skills

- **Programming Languages:** C/C++, Python, JavaScript, PHP, Java, Matlab, Verilog HDL, LaTeX.
  - *Technologies and frameworks:* Ajax, jQuery, HTML, HTML5, CSS, Bootstrap, Node.js, MySQL (SQL and NoSQL with the native JSON data type), GCP, AWS.
- **Industry Software Skills:** Most MS Office products, Adobe Photoshop, Adobe Ilustrator, Matlab, SageMath.
- **General Business Skills:** Good presentation skills, work well in a team.

Notable Projects..

○ **Traditional Chinese and English Scene Text Detection and Recognition:** *Computer Vision, Deep Learning*

Have worked in a project on which the task was to detect and recognize Traditional Chinese or English text from pictures taken at different spots and streets from Taiwan. Managed to get an accuracy (detection and recognition) greater than 0.85.

○ **Classification of Thesis:** *AI CUP 2019 - Ministry of Education of Taiwan*

We were provided with a set of academic paper abstracts and our task was to predict if a paper was in the category of **Theoretical Paper, Engineering Paper, Empirical Paper** or **Others**, a paper could also be classified into more than one category. I received an honorable mention for my performance in the competition.

○ **Recent Web and IoT Applications development:** *Web Technologies and IoT*

Have worked with different web technologies such as JavaScript, PHP, Ajax, jQuery, HTML, HTML5, CSS, Bootstrap, Node.js, MySQL and Python. I have also been involved in the development of IoT applications using boards from MediaTek, Arduino, Raspberry Pi, and some experience with FPGAs working with embedded systems.

○ **Undergraduate Graduation Project:** *'Smart Android Based Attendance System'*

I worked in this project for more than one year. It required excellent planning and organizational skills, and the ability to teach myself lot of new IT technologies. The project was a success, with the system being able to localise in a classroom all the students who have installed the application in their android device, take a record of attendance and keep it online. This project has been supervised by my academic advisor.

○ **Virtual Interactive Kinetic Books:** *(HackNTU 2016)*

As a team we started a project called VikBooks (Virtual Interactive Kinetic Books). It is a way of learning based on augmented reality. Its technology allows the users to not only read what is printed in a physical paper, but interact with it in a new and different way. We started the project in 2016 in the Taiwan largest Hackathon, it requires a high technical ability and strong team-working skills to be able to come with a prototype in one weekend.

○ **Geolocation Based Buy and Sell System:** *(HackNTU 2015)*

We developed a system to buy, sell and donate online. We generated the idea and come with the first prototype in one weekend in HackNTU 2015.

Technical Education

○ **The Sisters of Mary School**-Boystown   **Guatemala C.A.**
Diploma in Automotive Mechanical, Supervised by TOYOTA Academy   *November 2008*

○ **The Sisters of Mary School**-Boystown   **Guatemala C.A.**
School Specializations   *October 2007*

  - Diploma in Computer Technology and Operation
  - Diploma in Industrial Electricity
  - Diploma in Industrial Welding
  - Diploma in Carpentry
  - Diploma in Tailoring

Languages

○ **Spanish:** First Language
○ **English:** Fluent. TOEFL certified.

○ **Chinese:** Fluent. TOCFL certified.
○ **French:** Basic