Guido **Santillán**

FULL-STACK WEB DEVELOPER · MECHATRONICS ENGINEER · TECH ENTHUSIAST

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Date of Birth: 28.12.1992 · Nationality: Ecuadorian · Marital Status: Single

Summary

I am passionate about technology and its use to improve and ease human life quality. I use a multi-disciplined approach to solve problems. A fast learner who adapts quickly to assess an organization's needs.

As a web developer, I use HTML, CSS, Javascript, and the PERN stack (PostgreSQL, Express, React, Node), a slight variation of the well know MERN stack. Aside from that, I am familiar with tools like: npm, eslint, prettier, Jest, Enzyme, Redux, Webpack, babel, Postman, Git, and Heroku for state management, live updates, building, version control and hosting.

As a mechatronics engineer, I have experience in the design and improvement of automated processes, robotics, the innovation of equipment and production systems using computer-aided design to develop and test potential solutions. Proven skills in CAD/CAM/CAE, mechatronic design, PLC, embedded systems, design of machine elements, integrated manufacturing systems.

My goal is to combine these technical knowledge areas into a specialized profile which can develop innovative products and solutions using multiple points of view among various tech fields. I am actively looking forward to expanding my knowledge, improve my skills and obtain relevant experience in the IT industry in order to help develop world-changing solutions.

Projects

DesignIO   *Quito, Ecuador*
INDEPENDENT DEVELOPER   *April 2019*
- Improve your design!
- Ongoing open source project hosted on GitHub

Syder Ideas   *Quito, Ecuador*
INDEPENDENT DEVELOPER   *January 2019*
- Manage your ideas!
- Stores all data in a **PostgreSQL** database
- Ongoing open source project hosted on GitHub

Experience

Project Manager *Quito, Ecuador*
ECUAFRANQUICIAS *Oct 2016 - present*

- Automation of multiple internal processes using office automation tools and Excel to reduce in half the time needed to deliver the product to our clients while simultaneously detecting errors in the development stage and giving employees more autonomy to develop their daily tasks.
- While the processes automation improved a lot of things, it was not enough to maximize the performance of the employees. A system was needed. The development of a tool was pitched to solve these problems, this tool will use modern technologies to gather, store, and manage information in an accessible way for our employees.
- Operative and administrative process documentation of our clients.
- Implementation of email marketing campaigns using MailChimp to approximately 3000+ subscribers.
- An SEO strategy was put in place to improve local search results. This strategy consisted of webpage redesign, webpage optimization, keyword research and analysis, content creation, webpage analytics.

Web Developer *Quito, Ecuador*
INDEPENDENT WORK *June 2017 - present*

- Redesign of multiple websites, including *Asociación Ecuatoriana de Franquicias*, *Ecuafranquicias*, *Villagran Lara Asociados* using various CMS.
- Websites were designed with a focus on achieving maximum performance, faster loading times, mobile-friendly and optimized for SEO purposes.

Research and Teaching Assistant of Computer-aided Design, Manufacture and Engineering subject (CAD, CAM, CAE) *Quito, Ecuador*
DEPARTMENT OF ENERGY AND MECHANIC SCIENCES - ESPE *Nov. 2015 – Feb. 2016*

- Modeling, analysis, and manufacture of a vehicle-based RIN.
- Out-come report generation, elaboration of processes sheets, G-code programming, design of the vehicle-based RIN using computer-aided software, strain simulation and post-process of the manufacturing operations.

Undergraduate Researcher, Manufacturing Processes Lab. *Quito, Ecuador.*
ARMY FORCES UNIVERSITY - ESPE *Jan. 2015 - Mar. 2015*

- Design and development of mobile robots using 3D printing and laser cutting techniques.

Education

PyTorch Scholarship Challenge from Facebook *Online*
UDACITY *Nov. 2018 - Jan. 2019*

- Used Pytorch, Jupyter
- Trained a deep neural network to detect distracted driver
- Trained a deep neural network to classify 102 species of flowers

International Exchange Student *Brandenburg an der Havel, Germany*
TECHNISCHE HOCHSCHULE BRANDENBURG *March - Sept. 2016*

- Development of thesis project: *"Implementation of HIL/SIL simulation techniques for real-time tests of vehicle models using the DSPACE platform"*
- GPA: A-
- System modelling | Vehicle dynamics | Embedded systems

Bachelor of Science (B.Sc.), in Mechatronics Engineering *Quito, Ecuador*
ARMY FORCES UNIVERSITY - ESPE *Apr. 2011 - Feb. 2016*

- GPA: 17.43/20
- Industrial Robotics | Mechatronic Automation | CAD/CAM/CAE

Skills

LANGUAGES:

Spanish	Native
English	Fluent - Sufficiency in English Certificate completed at ESPE
German	Basic - A1 completed at Technische Hochschule Brandenburg - Germany

PROGRAMMING EXPERIENCE:

Web development	HTML, CSS, SCSS, Bulma, Javascript, GIT, Webpack, eslint, prettier, Postman
Frontend	React, Redux, React-Router, GatsbyJS
Backend	NodeJS, Express
Testing	Jest, Enzyme
Databases	PostgreSQL
Hosting	Netlify, Heroku
CMS	Wordpress
Machine Learning	Pytorch, Jupyter
Others	Python, Pandas, Arduino, Processing, LaTeX
Basic experience	C, C++, Java

OTHER:

Media	Adobe Indesign, Adobe Illustrator, Sony Vegas
Digital Marketing	Search Engine Optimization, Google Analytics, Google Search Console, Email Marketing
CAD/CAM/CAE	SolidWorks, AutoCAD 2D/3D, Siemens NX
Mathematical Analysis	Matlab/Simulink, LabVIEW
Electronic Design	Proteus, Multisim

Honors & Awards

2016	**Honorable Mention**, Awarded by the *Army Forces University's* principal	*Quito, Ecuador*
2016	**Winner**, EXPOINDUSTRIAL 2016 Mechatronics Competition – FESTO CHALLENGE	*Quito, Ecuador*
2016	**High Performance Scholarship**, Awarded by the *Army Forces University* to develop research projects in Germany	*Quito, Ecuador*