

JHON ESTEBAN LUENGAS MACHADO

Mechatronics Engineer, Software Developer

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📍 Bogotá, Colombia

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PROFILE

Mechatronics Engineer and Electronics Technologist. Versatile, analytical and hardworking, qualified with skills based on responsibility, proactivity and empathy. Extensive knowledge in Backend and Frontend development, SQL, no-SQL databases and electronic design; research interests in the areas of Deep Learning, Web design, Web scraping, HW/SW development, Control Systems, SCADA systems, IIoT and Industry 4.0.

WORK EXPERIENCE

Developer

Infométrika S.A.S.

📅 Mar 2021 - Jan 2022

📍 Bogotá, Colombia

- Planning and organization through SCRUM (Taiga).
- Backend development (PHP, AdoDB, PostgreSQL, Python [Django]).
- Frontend development (JavaScript, JQuery, HTML5, CSS3).
- RESTful API design (Django REST Framework).
- API testing automation (Postman).
- Code testing (Python unittest, Selenium Web Driver).
- Version control (Git, GitLab).

HW/SW developer and lecturer

Universidad Nacional de Colombia

📅 May 2021 - Oct 2021

📍 Bogotá, Colombia

- Support in curve tracer design (I-V) of PV panels.
- Python programming and GUI design (OOP, PyQT).
- Lecturer in 5th and 6th Diploma in photovoltaic systems.
- Scraping (BeautifulSoup, Scrapy, urllib, JSON, XML ElementTree).
- Version control (Git, GitHub).
- Product documentation and technical support.

Student assistant

Laboratorio de Ensayos Eléctricos y Calibraciones Industriales (LABE),
Universidad Nacional de Colombia

📅 Sep 2018 - Feb 2021

📍 Bogotá, Colombia

- Planning (Kanban-Trello).
- SW/HW programming (C, C++, Python, Java).
- Web development with Odoo 13 (ERP and CRM, Python).
- Version control (Git, GitHub).
- Management of SQL databases (SQLite) and no-SQL databases (InfluxDB).
- Electronic design and simulation (Autodesk Eagle, LTSpice, Multisim).
- Preventive and corrective maintenance.

CERTIFICATES

- 📄 Neural Networks and Deep Learning. Coursera - DeepLearning.ai.
- 📄 Python for Everybody specialization. Coursera - University of Michigan.
- 📄 Web Application Technologies and Django. Coursera - University of Michigan.
- 📄 Google Cloud Fundamentals: Core Infrastructure. Coursera - Google.
- 📄 Control of Mobile Robots. Coursera - Georgia Institute of technology.
- 📄 Diploma in ICT Skills: Web Accessibility and Usability Design. COLNODO.
- 📄 Leadership program: Bogotá Líder. IDPAC & OEI.

EDUCATION

BSc. Mechatronics Engineering

Universidad Nacional de Colombia

📅 2014 - 2021

📍 Bogotá, Colombia

Electronics Technology

Universidad Distrital Francisco José de Caldas

📅 2011 - 2016

📍 Bogotá, Colombia

TECHNICAL SKILLS

• Programming

Python Django Flask PHP C
C++ Java SQLAlchemy HTML5
CSS3 Javascript JQuery

• Development tools

VS Code Jupyter Spice Grafana

• Databases

PostgreSQL MariaDB SQLite
InfluxDB MongoDB

• OS

Ubuntu Desktop/Server Windows

• Version control

Git Git-Flow GitHub GitLab

• Production/Planning

Kanban/Trello SCRUM/Taiga
MS Office/LibreOffice L^AT_EX

• Languages

Spanish English

VOLUNTEERING

- 📄 Academic tutor, Project manager. Fundación Aspirantes.org.
- 📄 Leader, academic tutor. Universidad Nacional de Colombia.
- 📄 Leader, academic tutor. Universidad Nacional de Colombia.

STRENGTHS

Decision Making Motivator & Leader
Conflict Resolution Time Management
Self-taught Flexibility and Adaptability