



## Cesar David Padilla Silva

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**Date of birth**: 09/12/1986 **Nationality**: Ecuadorian

### ABOUT ME

Software Engineer/Full Stack Web Developer building websites and applications. Knowledge in Python, JavaScript, and C# as well as modern web frameworks and libraries like Django, React.js, Node.js, .Net Core. Translating solutions into code and working across different APIs, third-party integrations databases and cloud solutions.

### WORK EXPERIENCE

[ 31/03/2020 – Current ]

#### Lead Full Stack Web Developer

##### *ProsumerGrid, Inc.*

**City**: Atlanta (Remote)

**Country**: United States

Project: Create a Web based SAAS platform for Distributed Energy Resources Planning & Simulation

- Design and code the frontend for the web application ProsumerGrid.
- Design and develop the REST API backends in .Net Core
- Develop the user's authentication and authorization for the application system using JSON Web Tokens.
- Design and implement the data structure in PostgreSQL database.
- Design and implement a map view to display the distribution systems on a map
- Develop the code to create reports.
- Implement new analysis as Microservices in python
- Test python code using Pytest
- Create subscription services through the Stripe API
- Deploy the main web app in Amazon Web Services (AWS) using Terraform and AWS Fargate.
- Create a CI/CD automated pipeline with GitHub Actions and AWS for the main product deploys and releases.
- Test the application using end to end test engines such as Cypress.js
- Technologies: Django, React.js, PostgreSQL, RabbitMQ, Mapbox, Typescript,, Pandas, NumPy, Chart.js, Plotly, Stripe, FluentUI, SemanticUI, .Net Core

[ 01/02/2018 – 01/04/2020 ]

#### Freelance Web Developer

##### *Freelance Job*

**City**: Quito

**Country**: Ecuador

Project: Asistente de Catedra is a Saas web platform to help teachers into building Curriculum Planning in Ecuador.

- Design and implement the data structure in PostgreSQL database.
- Design and code the user interface for the main application
- Program the web backend for the CRUD operations in each of the planning.
- Develop the user's basic authentication and authorization system for the application.
- Develop the code to export the planning documents in PDF format
- Perform unit tests with the Pytest library.
- Perform end to end tests with Selenium automation tool.

- Technologies: Django, jQuery, Pillow, Requests, Django Xhtml2pdf, Sass

Project: Create ArterialCare a web based application to monitor patient's blood pressure.

- Design and implement the data structure in MongoDB
- Program a REST API to handle the application logic
- Develop the user's authentication and authorization system for the application using JSON Web Tokens for patients and doctors.
- Program a Raspberry Pi – Arduino system to take the blood pressure measurement.
- Design and program the frontend in Angular 5
- Technologies: Node.js, Angular 5, MongoDB, Express.js, Sass, Raspberry Pi

Project: Create a python Tkinter user interface for a water drone

- Design and implement the data structure in MySQL
- Create a user interface for the water drone using Tkinter
- Design and implement map view for the drone location
- Technologies: Python, Tkinter, MySQL, Raspberry Pi, Folium

Project: Make the landing page for the company Cali & Tron in Ecuador

- Design and implement the frontend for the website Cali & Tron
- Integrate a chatbot to the Cali & Tron website
- Deploy the website in Hostinger
- Technologies: Html, CSS, Javascript, jQuery, PHP

[ 01/09/2017 – 01/02/2018 ]

## Junior Web Developer

### ***Atenea Soluciones S.A.***

**City:** Quito

**Country:** Ecuador

Project: Mercurio is a web platform designed as an event management platform to create courses, and events.

- Design and implement the data structure using MySQL.
- Design and develop the main backend for the application.
- Design and develop an administrative website for the application.
- Develop the user's authentication system.
- Program the frontend and the user interface.
- Technologies: PHP, Laravel, MySQL, Html, CSS, Javascript, jQuery, jQuery UI

[ 01/08/2016 – 01/09/2017 ]

## Electronic Engineer

### ***SiComDat***

**City:** Quito

**Country:** Ecuador

Project: Program automatismos to control the wastewater treatment plant "Lechería Toni" in Guayaquil.

- Program a programmable logical controller to manage the different processes in the treatment plant.
- Program a Touch Panel screen interface to control and visualize the processes in the plant.
- Technologies: Siemens, Programmable Logical Controllers, ladder programming, C programming.

[ 01/01/2014 – 01/03/2016 ]

## Electronic Engineer

### ***Empresa Pública Metropolitana de Agua Potable y Saneamiento (EPMAPS)***

**City:** Quito

**Country:** Ecuador

Project: Design and build a SCADA system for the Water Treatment Plant "Noroccidente"

- Program a programmable logical controller to manage the different processes in the treatment plant.

- Program two Touch Panel screen interface to control and monitor the water treatment processes in the plant.
- Develop a User Interface to visualize and control all the processes in the plant.
- Automate the water report generation.
- Integrate a database to save all the information about all variables involved in the process of the water treatment.
- Integrate the power generation process to the new SCADA user interface
- Design and build a new network for all the plant which will connect all the field devices and actuators.
- Automate the start and stop of the engines for the flocculation process.
- Automate the control of the main valves in the water plant according to the season.
- Technologies: C/C++, Microsoft SQL Server, InTouch software, Programmable Logical Controllers, ladder programming.

[ 01/09/2011 – 01/02/2012 ]

## Junior Engineer

### *Energypetrol*

**City:** Quito

**Country:** Ecuador

Project: Electronic design and communications of the Firefighting System in the Plant "El Beaterio" EP Petroecuador.

- Design a Fire Fighting electric system for the Treatment Plant "El Beaterio"
- Design the communications and networks for the firefighting system
- Program a programmable logical controller to manage the firefighting system
- Create the layouts of the electric and communications systems to be implemented.
- Technologies: InTouch software, Programmable Logical Controllers

## EDUCATION AND TRAINING

[ 2017 – 2018 ]

### Master in Software Engineering

*Universidad Internacional de la Rioja* <https://www.unir.net/>

**City:** Logroño

**Country:** Spain

[ 2005 – 2016 ]

### Engineer in Electronics and Control

*Escuela Politécnica Nacional* <https://www.epn.edu.ec/>

**City:** Quito

**Country:** Ecuador

## LANGUAGE SKILLS

**Mother tongue(s):** Spanish

**Other language(s):**

### English

**LISTENING B2 READING C1 WRITING B2**

**SPOKEN PRODUCTION B2 SPOKEN INTERACTION B2**

*Levels: A1 and A2: Basic user; B1 and B2: Independent user; C1 and C2: Proficient user*

## DIGITAL SKILLS

Web Development (Python/Django) | Node.js, React.js | PostgreSQL and MariaDB | JSON | Python | Github | CSS | Object-Oriented Programming | MySQL | Web Development | JavaScript | HTML | .NET/.NET Core | SQL | RESTful api | Git | MVC Patterns