**Leticia Coelho**

*Software Engineer*

# Profile

I graduated as a Telecommunications Engineer. I have experience in developing web applications and industrial applications, developing firmware to get real-world data and web software to render the data (IoT). My main skills are related to creating maintainable web applications following good software engineering practices.

**Specialties**: Web applications, Software architecture, Industrial applications

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# Experience

**Community Leader and Content Creator**

**Community Leader** | BeeStrong Code | 03/2021 - present

As a community Leader, I'm working on the BeeStrong Community to give access to tech careers for women and non-gender people, creating articles, tutorials, classes, and mentorship

Main technologies: computer engineering concepts, Git, Github, soft-skills, python, java, javascript.

**Content Creator** | Engineer Rabbit | 06/2019 - present

As a content creator, I am responsible for creating articles, blog posts, tutorials and mentorships. Always using analogies and creative posts to teach computer engineering concepts in an easy and illustrated way.

Main technologies: computer engineering concepts, soft-skills.

**Software Engineer** | ArcTouch | 04/2021 - present

**PROJECT**

SMALL PROJECT DESCRIPTION

Main technologies: React, Python, PyTest, Gfriend, Javascript

**PROJECT**

SMALL PROJECT DESCRIPTION

Main technologies: Wagtail CMS, Python, MySql, NextJs, Storybook

**PROJECT**

SMALL PROJECT DESCRIPTION

Main technologies: Angular 1.0, Custom components, Javascript ES6, Jest, Python, Django.

**PROJECT**

SMALL PROJECT DESCRIPTION

Main technologies: NextJs, xStates, Javascript, Jest.

**PROJECT**

SMALL PROJECT DESCRIPTION

Main technologies: React, Javascript, Jest, Clean Code, Clean architecture.

**PROJECT**

SMALL PROJECT DESCRIPTION

Main technologies: Vue, Javascript, Node.js, MongoDB, Parse Server, PayPal, Clean Code, Clean architecture.

**Full-Stack Software Developer** | Involves | 09/2019 - 04/2021

**Involves stage | Involves**

Involves Stage is a trade-marketing solution. With the tool it is possible to manage your team in the field, monitor reports and generate insights, in order to increase productivity and sales.

I worked to solve bugs, decoupling software, improvements in the implementation of communication (websocket) implementing new communication requirements between the mobile and web applications. Work into the creation of a new import architecture feature.

Main technologies:Java, Spring Boot, Hibernate, GIT, AngularJS, ReactJS, jQuery, REST API, Clean Code, Clean architecture, MVC.

**Full-Stack Software Developer** **Consultant** | Azuritta | 04/2020 - 06/2020

**Condominium bills | Azuritta**

A web platform to verify reports associated with condominium accounting in order to optimize the work performed by the administrative team.

Main technologies: Java, Spring Boot, Auth2, ReactJS, CSS, HTML, MongoDb, MySql.

**Full-Stack Software Architect and Developer** **Consultant** | Ciclix | 09/2019 - 10/2019

**Object Traceability | Ciclix**

Indoor IoT infrastructure for location of hospital materials. Reaching the goal of delivering the communication infrastructure between firmware and servers, through the specialized indoor location service for healthcare.

Main technologies: Project architecture, documentation and project definition, *Middleware,* microservices*, SAAS, Beacons, Gateway BLE, ODOO, Python, RFID, FIND3, Firebase, MongoDB, AWS, Docker.*

**Full-Stack Software Architect and Developer** | Macnica DHW | 10/2018 - 09/2019

**Beta of Temporary Grounding Control | CGTI Institute**

Project with the objective of controlling and supervising installed temporary grounds, using IoT and Smart Mesh, and demonstrating results through a web page and through the Supervisory System (SCADA). This project generated a patent for the company CGTI Taesa.

Main technologies: Project architecture, Embedded systems, Smart mesh, FreeRTOS, Bootstrap, Modbus RTU, Internet of Things, microsservice, HTML, Python, Flask, JQuery, relational database, communication protocol, API, Industry 4.0, Telecommunications.

**Undergraduate Intern** | Soma | 11/2017 - 09/2018

**Remote experiment | Soma**

Main technologies: Arduino Board, C++, HTML, CSS, Python, MongoDB, Flask, jQuery, APIRestfull, WebRTC, MQTT, HTTP, Websocket, Cloud.

**Didactic Bench - Programmable Logic Controller | SENAI MT**

Its main purpose is to program the PLC to control and monitor motors, using various switches and indicator LEDs, adapted for use in the laboratory. I developed the kit and trained SENAI teachers to use this didactic kit.

Main technologies: Electronics, Industrial processes, HMI, V20, G120, CLP 1214C Siemens, industrial communication ( Modbus, Profibus, Profinet, OPC, RS485 ), 4.0 Industry

**Didactic Kit - Motors and transformers | SENAI MT**

Allows electrical connection with starting devices for three-phase and single-phase electric motors. I developed the kit and trained SENAI teachers to use this didactic kit.

Main technologies: Electronics, Industrial processes

**Didactic Kit - Industrial Communication Networks | SENAI MT**

Programming of PLC, HMI and frequency inverter. Industrial communication between PLC, HMI and frequency inverter. Command and activation of induction motors. I developed the kit and trained SENAI teachers to use this didactic kit.

Main technologies: Electronics, Industrial processes, HMI, CLP 1214C Siemens, industrial communication ( Modbus, Profibus, Profinet, OPC, RS485 ), 4.0 Industry

**Didactic Kit - Instrumentation Teaching | SENAI MT**

Instrumentation study, Centrifugal pump activation, pneumatic valve, reservoir level control, PLC control and programming, HMI and frequency inverter. I developed the kit and trained SENAI teachers to use this didactic kit.

Main technologies: Electronics, Industrial processes, HMI, V20, G120, CLP 1214C Siemens, industrial communication ( Modbus, Profibus, Profinet, OPC, RS485 ), 4.0 Industry

**Didactic Kit - Frequency Inverter | SENAI MT**

Drive and programming the frequency inverter; Motor activation, monitoring and control; Activation of keys, relays and leds. I developed the kit and trained SENAI teachers to use this didactic kit.

Main technologies: Electronics, V20, industrial communication ( Modbus, Profibus, Profinet, OPC ), 4.0 Industry, Industrial processes.

**Research Student** | Superior Institute of Engineering of Porto | 03/2017 - 07/2017

**VISIR Project | Propicie program**

It aims to define, develop and evaluate a set of educational modules comprising hands-on, virtual, and remote experiments, the latter supported by a remote lab named Virtual Instruments Systems In Reality (VISIR).

Main technologies: National instruments, VISIR+, HTML, CSS, PHP, HTTP, MariaDB, SQL, Remote Laboratories, Remote applications.

**Research Student** | Federal Institute of Santa Catarina | 02/2014 - 03/2017

**MedBox | IFSC**

The MedBox project is an electronic medication box that contains the necessary hardware to detect events, trigger and control activities related to the user's medication intake. I worked as a Software engineer studying and implementing the minimal valuable project.

Main technologies: Embedded Systems, C, C++, HTTP, Wi-fi, Bluetooth, Communications, Protocol, Product development, Internet of Things, Intel Galileo Gen 2 and Arduino Board.

Education

**Federal Institute of Santa Catarina (IFSC)** | 2013 - 2019

B.S., Telecommunications Engineer

**Other Courses or Certifications**

**Awards and Contest**

2017 Second place at the IFSC Innovative Ideas Contest (7.000,00 BRL grand) - Brazil.

2017 Final step at the Sinapses of Innovation Contest (Innovation training) - Brazil.

2017 Final step at The best of Innovation Contest (Innovation training) - Brazil.

2017 Final step at Intel Embedded Systems Competition - Brazil.

**Grants**

Scholarship Holder of PROPICIE (IFSC International Student Exchange Program) from March 2017 to July. €3,500.00.

**Courses**

2015 - Internet of Things - Forum internacional de Software Livre - 60 Hrr

2016 - SBESC - School of Embedded Systems - SBC - 60 Hrs

2017 - Empretec - Sebrae - 63 Hrs

2017 - Machine Learning / IOT - The developers conference - 16 Hrs

2018 - Introduction to space technologies - INPE - 126 Hrs

2018 - Application of Machine Learning Techniques Using R - IFSC - 3 Hrs

2018 - Matlab - IFSC - 66 Hrs

2018 - Machine Learning / IOT - The developers conference - 16 Hrs

2020 - Udemy: React.

2022 - Spark AR Meta official - in progress

2022 - Solutions Architect - Linux tips - In progress

**Courses and Conference organization**

2015 ~ 2016 - Teacher - Basic Arduino workshops, São José, Santa Catarina - BR.

2016 - Teacher - Workshop Business model canvas Básico - São José, SC.

2016 - Teacher - Brainstorming Básico - São José, SC.

2017 - Teacher - Django Girls, São José, Santa Catarina - BR.

2017 - Organizing committee - The developers Conference, Florianópolis.

2018 - Teacher - Siemens Tia Portal V15 Tool - SENAI Institute - Cuiabá, MT.

2019 - Technical and Business Mentor - Hackathon Agroup - Vitória da Conquista, BA.

2019 - Technical and Business Mentor - Startup Weekend Woman - Florianópolis, SC.

2019 - Speaker - ENTIDV - Florianópolis, SC.

2020 - Volunteer Technical Mentor - Conecta Startup Brazil, Brazil.

2021 - Speaker - O triângulo invertido do front-end - The developers Conference, Florianópolis.

2021 - Speaker - Desmistificando o Tecniquês - The developers Conference, Florianópolis.

2021 - Speaker - Processos seletivos na área tech: Por onde começar? - Google Developers Group

2021 - Speaker - Entendendo os impostores que dificultam os testes unitários - Womakers Code.

2021 - Speaker - Como garantir resultados amigáveis para pessoas que usam ferramentas assistivas? - Arctouch

2021 - Speaker - Como é trabalhar em uma empresa americana e falar inglês no dia-a-dia? - Arctouch

2021 - Speaker - Programação inclusiva: Como garantir resultados amigaveis para pessoas que usam ferramentas assistivas? - ArcTouch

2021 - Speaker - Inclusão e diversidade na tecnologia - Data Master

2022 - Speaker - Ferramentas e dicas para arrasar no mercado de trabalho - Elas Computação

2022 - Speaker - Mulheres que fazem a diferença - O matuto programador

2022 - Organizing committee and speaker - Wonder Tech - Dev brazillian community

2022 - Teacher - Git e GitHub - BeeStrong Code

# Publications

1. COELHO, L. A. ;FERTIG, K.S.;FERTIG, K.S. TKmed - Medication aid system. Extended abstract. In: VI Brazilian Symposium on Computing Systems Engineering 2016, João Pessoa, Paraíba.
2. COELHO, L. A. ;FERTIG, K.S.;FERTIG, K.S. TKmed - Sistema de auxílio à medicação​. Abstract. In: Mostra Científico Cultural 2016, São José, Santa Catarina.
3. BRANCO, M.V.; COELHO, L. A. ;ALVES, G. R. Differentiating simulations and real (remote) experiments​. Full paper. In: 5th International Conference on Technological Ecosystems for Enhancing Multiculturality, 2017, Cádiz, Espanha.
4. BRANCO, M.V.; COELHO, L. A. ;ALVES, G.R. Aspectos de diferenciação entre laboratórios remotos e simuladores​. Full paper. In: Cobenge 2017, 2017, Joinville, Santa Catarina.
5. BRANCO, M.V.; COELHO, L. A. ;ALVES, G.R. Estudo Comparativo entre Laboratórios Remotos e Simuladores. Chapter 16. In: TICAI 2017 - TICs para el Aprendizaje de la Ingeniería. ISBN 978-84-8158-774-6 ©IEEE, Sociedad de Educación: Cápitulos Español y Portugués.
6. ALMEIDA, D.P.;, ABELHA, M., ARPINO, C., COELHO, L., CORRÊA, M., SARAIVA, J.P., MATTIELLO-FRANCISCO, F. Simulação da operação e comunicação de uma carga útil baseada na Sonda de Langmuir com o OBC do NanosatC-Br2. Full paper. In: 9° Workshop on Space Engineering and Technology, 2018, São José dos Campos, São Paulo.