

Ilka Santiago

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<https://github.com/isantiag> • Portfolio

Software Engineer with a background as a system engineer. I'm detailed oriented and an engaged team player. I'm driven by excellence and a sense of accomplishment. My tools are Javascript, Node, Sequelize, React, and Python. I'm very excited to build applications that contributes to the business success, and attend the customers needs.

Skills

Languages | JavaScript, HTML, CSS, Python
Libraries and Frameworks | React, Node, Express
Database | PostgreSQL, Sequelize, ORM, MongoDB, Mongoose, ODM
Other | RESTful Routing JSON

Projects

Mancala | <https://isantiag.github.io/Mancala>

HTML, CSS, Javascript

01/2021

- A browser-based game built entirely in the front-end. It is a 1-2 player game. Features include display the player turn, keeps track of the game score, and which player won the game. Javascript was used for DOM manipulation.

Stock Market Price | <https://ilka-stock-price.herokuapp.com>

Postgres, Sequelize, Node, Express, Fetch

02/2021

- Full-stack project where the user can build his/her watchlist and based on that get the stock market price, and some company information. Those data were obtained from Alpha Vantage API.
- It included sign up/log in functionality with a hashed password and an authorization flow. The app has a complete RESTful routes. Sequelize was used to create a database table structure and interact with the relationally stored data.

Professional Experience

BOEING | Everett, WA, US

10/2018-06/2020

Mechanical System Design & Analysis Engineer - Boeing 777X

- Developed and executed lab tests procedures for CACTCS (Cabin Air-Conditioning and Temperature Control System) to ensure system requirements coverage.

- Troubleshoot software issues from lab and aircraft flight tests.
- Coordinated with the system supplier team to address software issues found in the lab, ground, and flight test.
- Performed system requirements reviews considering the company guidelines for system development assurance(ARP 4754), and listed the issues found.
- Supported process assurance activity by completing the audit checklist for system validation and verification phases and creation of action items list.

AEROTEC LCC | Seattle, WA, USA

05/2016-09/2018

Environmental Control System (ECS) Engineer - MRJ

- Created ground and flight test plans and test reports to support system development / Certification, included but not limited to:
 - Ground and Flight test plan for Inerting Gas System (IGS) flammability
 - Created Test reports: Static Port Heater, Pull up & Pull Down, Thermal Report, Main Landing Gear (MLG) Thermal Report, Flight Test Thermal Report, Maximum Precooler Effectiveness Assessment.
- Drafted System Description Documents for Pneumatic, ECS and Ice Protection Systems.
- Reviewed and suggested improvements on the fault isolation procedures for maintenance messages from ATA 21 and 36.

BOMBARDIER AEROSPACE | Dorval, QC, Canada

04/2009-02/2016

System Integrator Engineer - Environmental Control System (ECS)- Challenger(CL) Aircraft Program

- Coordinated qualification and certification activities of ECS and Wing Anti Ice System (WAIS) for CL350: Reviewed, approved and supported releasing documents (specification, qualification and certification reports, ECS and Wing Anti Ice System performance, acceptance test procedures and vendor drawings).
- Coordinated with the supplier design changes on parts as Wing Anti-Ice Temperature Sensor for CL300 and Bleed Valve for CL605.
- Coordinated the inspection time extension for Ozone Converter (CL300) to improve customer satisfaction.

EMBRAER | São José dos Campos, SP, Brazil

01/2004-03/2009

Product Development Engineer - Air Management Systems (AMS) - ERJ170/190 Program

- Coordinated software changes with the supplier to address issues found in the lab, production and fleet.
- Supported the integration of the new AMS software by creating the test plan and test report, and performing the test in the RIG or Iron Bird.
- Supported certification group by reviewing the PSAC (Plan for Software Aspect of Certification), SCI (Software Configuration Index) and SAS (Software Accomplishment Summary) for the new Air Management System Controller software release.

Education

Degree/Certification/Program Name, Graduation Year

Software Engineering Immersive Program at General Assembly, 2021 - Remote
12-week, 450+ hour program focused on full-stack development, coding both front and back end applications with modern frameworks, libraries and languages.

Master of Science at ITA - Mechanical & Aeronautical Engineering, Brazil

Bachelor of Science at UFPE - Electrical Engineer, Brazil