# Arthur Octavio Dias dos Santos

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## SUMMARY

Experienced Full Stack Developer with 2 years of experience in React.js, Next.js, Product Development, Problem Solving, REST API, Full Stack, Backend, FrontEnd, Kanban, Agile Development, and Node.js. Proven ability to create an effective user experience and solve complex business problems through data-driven software solutions. Seeking a position as a Full Stack Software Engineer.

## EXPERIENCE

### Full Stack Developer
**Coally**                                                    **January 2021 – Present, Sao Jose dos Campos**
· Developed Apps from scratch by building its own requirements, communicating well with the team, and using innovative thinking to solve problems.
· Improved team productivity by reducing the time it takes to deploy new code to production by 75% by building a continuous integration system that automated the deployment process.
· Built a responsive, SEO-friendly, e-commerce site using Wordpress, React, Next.js, Tailwindcss, and GraphQL.
· REST-API building with Nest.js, Docker, PostgreSQL and PrismaORM.
· Reduced time to market for new feature requests from 1 week to within days, resulting in increased customer satisfaction by 27%.
· Optimized the application speed and improved the performance by 15% by utilizing caching mechanisms, code optimization and page reduction.

### Product Development Engineer
**Embraer**                                                    **March 2018 – Present, Sao Jose dos Campos**
· Currently – Aerospace Mass Properties Team – Military and Executive Programs.
· Former – Structural Design Engineer for KC-390 and Super-Tucano (A-29).
· Masters courses on Aerospace Engineering in partnership with (ITA) Technological Institute of Aeronautics.
· Major concentration on subjects as Aerospace Structures.
· Managed product development projects by using the design thinking process and integrating systems engineering principles.

### Product Development Engineer
**ATS4i Engineering Consulting**                               **August 2016 – March 2017, Sao Paulo**
· Used Python programming to automate the treatment of data to improve Tecplot (Flow visualization).
· Stress analyst for Pneumatic and Fuel Systems for Embraer Programs ERJ-175E2 and ERJ-190E2 Thermal Analysis of components for temperature.
· Reduced stress on structural supports by 22% in NX Nastran, Femap and CFD++.
· Analysis across projects relating (Cabin comfort, VALE – Trains, Ice Optic sensor).

### Engineering Intern
**Boeing**                                                     **May 2014 – August 2014, Seattle, WA, USA**
· Developed a Python program to provide stability for a drone's flight using the gyroscope and accelerometer sensors.
· Developed a Request of Proposal (Design, and Financial Analysis for Production, Scaling and Logistics for Bio-fuels in Aviation) by working with engineers in a corporate setting.
· Designed and Manufactured a Drone for Surveillance purposes, which uses a camera, GPS, and sensors to scan and record the surroundings, in a short period of time.
· Designed 3D CAD model of a landing gear, tested and implemented modifications to a 3D printing process for a rapid prototyping of the landing gear.
· Systems Engineering Training (Life cycle of product and Project Development) Process.

## PROJECTS

### Matelie Art Ecommerce
Coally ·  September 2022 – October 2023
· Developed an Ecommerce with Next.js and Wordpress/Woocommerce.
· Integrated Payment method with full range of api routes created on next.js.
· Created custom controls on Wordpress in order to customer manage its front-end through Wordpress only.

### Alluagro – Web
Coally ·  April 2022 – April 2023
· Developed a web app that allows the company to view all available machines posted by other users.
· Implemented a feature to allow users to search for machines and farms closest to their position.

· Integrated an external API to provide users with real-time farm product prices on the Brazilian market.
· Increased the number of end-clients of the customer company by 20%.

### Alluagro Mobile
Coally · December 2021 – February 2023
· Conceptualization of the app's features, functionality, and target audience.
· Creation of wireframes and user flow diagrams to map out the app's design and user experience.
· Development of the app's frontend and backend architecture.
· Implementation of user authentication and authorization systems to ensure data security.
· Integration with external APIs to provide real-time data on farm product prices in Brazil's market.
· Implementation of push notifications to alert users about new messages, job reservations, and other important events.
· Testing and debugging of the app's functionality and usability.
· Launch of the app and ongoing monitoring of user feedback and metrics to identify areas for improvement and new feature development.

### Alluagro – Dashboard
Coally · September 2021 – November 2023
· Developed a mobile app that allows the company to view all available machines posted by other users.
· Built a metrics tracking system for announcements related to machines and farms in need of machine-related jobs.
· Enabled tracking of negotiation progress and special reservation types that allow users to request direct monitoring by the broker company for better job results.
· Integrated an external API to provide users with real-time farm product prices on the Brazilian market.

## EDUCATION

### MSc Aerospace Engineering
Instituto Tecnológico de Aeronáutica (ITA) · São José dos Campos, SP, Brasil · 2021

### BSc Aerospace Engineering
Federal University of Uberlândia · Uberlândia, Minas Gerais, Brazil · 2016 · 3.0

### BSc Aerospace Engineering
Embry-Riddle Aeronautical University · Daytona Beach, FL · 2014 · 3.5

## CERTIFICATIONS

### React & React Native, RocketSeat
RocketSeat · 2022
· ReactJS and Environment Course · NextJS · TDD · Styled-Components · Redux · Jest · TypeScript · React-Query · React-Hook-Forms · Sass · Firebase · SOLID · React Native and Environment Course · Expo · Styled-Components · React Native Base

## COURSEWORK

### React
RocketSeat · 2021 · · ReactJS and Environment Course · NextJS · TDD · Styled-Components · Redux · Jest · TypeScript · React-Query · React-Hook-Forms · Sass · Firebase · SOLID · React Native and Environment Course · Expo · Styled-Components · React Native Base
created many tools like dashboards, ecommerces using the skills learnt on the course.

## INVOLVEMENT

### Tech Leader
São José dos Campos, SP, Brasil · Alvorada Church · November 2022 – Present
· Creation of PWA app using React.js, Next.js, and Firebase, enabling church administrators to manage their members and information about their membership. Improve the church's ability to receive and serve those in need, resulting in a 20% increase in acceptance rate..
· By using GitHub and agile methodology, managed a team of 2 developers to maintain and improve PWA, by increasing the rate of code coverage from 30% to 80%.
· Defined the metrics to measure success, developed an action plan to increase the number of visitors, and completed the plan within predefined time.

## SKILLS

Frontend: HTML, CSS, JavaScript, TypeScript, React.js, Jest, ChakraUI, Tailiwindcss, Next.js, Webpack, PWA, Redux, Zustand

Backend: Rest API, GraphQL API, Nest.js, Node.js, Jest, PrismaORM

Databases: MySQL, PostgreSQL, Relational Databases, NoSQL, MongoDB,

DevOps: AWS, Google Cloud Provider, Git, GitHub, CI/CD, Docker, Sentry

Soft Skills: Critical Thinkink, Problem Solving, Flexibility, Public Speaking, Team Leading, Product Management