

# Frederico Duarte Vieira

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## About

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With a degree in Computer Engineering, I have been working for the past 7 years in charge of project execution and development of technological solutions. My experience comprises mobile application development, video and image analysis systems, usage of artificial intelligence algorithms, and big data. I have dealt with tasks throughout my careers such as building all software parts and having skills with front-end, back-end, and cloud technologies. Working mainly with JavaScript(ES6), React and React Native, I also like to venture with Node.js and Python.

## Education Background

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Graduated in Computer Engineering by CEFET-MG (2016).

## Professional Experience

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### Syngenta

Front-end developer

May 2020 / Current

I work in the front-end development of the Cropwise Protector software, where I perform technical evaluation and implementation of new features, resolution of technical debts, mentoring of developers as well unit tests and integration tests.

#### **Project:**

- Cropwise Protector: Intelligent Agricultural monitoring platform, that assists crop management with geo-referenced monitoring, team performance indicators, and pest control.

**Technologies:** JavaScript ES6 (Axios, Jest, React, React Testing Library, Redux, RxJS, TypeScript), HTML / CSS (Ant Design, SASS), AWS (CloudWatch, DynamoDB, Lambda, S3), Redis.

### Stefanini

Full-stack developer

January 2019 / April 2020

I was in charge of the full-stack development of technology projects, which consists of building the software's architecture, technical leadership, creation of web and mobile interfaces, development and evolution of RESTful APIs as well as unit and integration tests.

#### **Projects:**

- BDMG: It is an app of contract management online. It has modules for document validation and proof of life;
- KIM+ (TACOM): It is an app of service management, that helps the user with daily tasks such as recharging bus cards, paying bills, phone data recharge as well as offering discounts in a variety of stores;
- MS Capital: It is an app focusing on money exchange operations, which allows the user to buy international currency and send money overseas;
- Spark App: It is a white label service management app that consists of daily tasks, mainly recharging phones, paying bills and transferring money.

**Technologies:** JavaScript ES6 (Axios, Jest, NodeJS, React, React Native), HTML / CSS (React Native Paper, React Native Elements, UI Kitten, SASS), Webpack, Serverless, AWS (CloudWatch, DynamoDB, Lambda).

## **Smart Sense Laboratory - DCC/UFMG**

### **Full-stack developer**

**October 2018 / January 2019**

In addition to working in the full-stack development of laboratory projects, I also performed the proposal and validation of the UI/UX. I was also in charge of front-end and back-end technology choices, maintenance of functionality, creation of unit tests and integration of systems with artificial intelligence algorithms.

#### **Projects:**

- Sense Cam: It is a web system of video surveillance that allows the user to have access to a variety of cameras at only one screen;
- Sense Face Recognition: It is a human recognition system that matches old and new pictures in order to recognize people, using mainly artificial intelligence algorithms;
- Sense Surveillance System: Monitoring dashboard that enables camera management viewing and event-based alert identifications.

**Technologies:** JavaScript ES6 (Axios, React, Redux, Jest, Enzyme), HTML / CSS (Materialize, SASS), Python(Flask), Webpack, Docker.

## **HEKIMA**

### **Front-end developer**

**June 2017 / October 2018**

I have worked mainly on the front-end development of the data preparation platform - Simplicidata. I was in charge of the maintenance of functionalities, creation of unit tests and resolution of technical debts. I also attended meetings regarding the technological decisions and provided technical solutions for the construction and viability of prototyped functionalities.

#### **Project:**

- Simplicidata: Artificial intelligence web platform for data preparation, which allows the users to perform a lot of customized data transformation.

**Technologies:** JavaScript ES6 (Enzyme, Jest, React, Redux, Relay, Charts.js), HTML / CSS (Materialize, SASS), Scala (Play), Webpack, GraphQL (Sangria), PostgreSQL, AWS (EC2, S3).

## **FAPEMIG**

### **Full-stack developer**

**October 2015 / June 2017**

I have worked in the full-stack development of the socioeconomic data visualization platform - DataViva. I provided the team with important tools in order to improve their professional skills, as well as coordinating tasks execution and performing the release of updates.

#### **Project:**

- DataViva: Collaborative web platform for visualization of Brazilian socioeconomic data, which the user can have an overview of the socioeconomic data of the country divided by states even cities, and so on.

**Technologies:** JavaScript (D3, JQuery), HTML / CSS (Bootstrap), MySQL, Python (Flask), AWS (EC2, RDS, Redshift).

## Technical Qualifications and Complementary Activities

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**Programming Languages:** HTML / CSS, GraphQL, JavaScript, TypeScript, Python, SQL

**Frameworks / Libraries:** Ant Design, Axios, Bootstrap, Charts.js, D3, Flask, Enzyme, Jest, JQuery, Less, Materialize, Material-UI, React, React Native, React Native Elements, React Native Paper, React Testing Library, Redux, Relay, RxJS (Observables), Sangria, SASS (SCSS), Serverless, UI Kitten, Webpack

**Version Control Systems:** Git

**Package Managers:** NPM, Yarn

**Databases:** DynamoDB, MySQL, PostgreSQL, Redis

**Cloud Computing Services:** AWS (CloudWatch, EC2, Lambda, RDS, Redshift, S3)

**Virtualization:** Docker

**Concepts / Methodologies:** BI (Business Intelligence), BPM (Business Process Modeling), BEM (Block Element Modifier), Kanban, Scrum, TDD

**Certifications:** TDC 2019 - Trilha NodeJS, SCRUM Fundamentals Certified - SCRUMstudy, IBM DataStage Enterprise 8.5

**Languages:** Portuguese (Native Speaker), English.