

MIGUEL FAGGIONI FERNANDES

EXPERIENCE

Nova Credit

2023 - 2024

Senior Full Stack Developer

- Drove the implementation of accessibility standards to get a VPAT, working closely with external consultants and some key customers.
- Created analytics dashboards in MixPanel and helped the product team run A/B tests to decide on best approach to drive more conversions.
- Led the D2C development and helped the product team prioritize asks from stakeholders across the company.
- Helped configure cookie permissions for GDPR and CCPA compliance using Cookiebot.
- Took part in design feedback cycles when adding new React components to the design system.
- Organized bug bashes after larger feature implementations to swarm test and do quality assurance.
- Simplified the way user consent texts are handled in code to improve maintainability and developer experience.
- Created the SSO configuration screens for customers to setup on their own and reduce need for CSM involvement when onboarding new customers.

Holonic

2022 - 2022

Senior Full Stack Developer

- Created reusable React components for displaying charts and system information on a dashboard.
- Standardized backend errors for easier communication with the frontend.
- Added validation on frontend forms, as well as on backend request body, to make sure data was formatted correctly and according to expectations.
- Created way to allow airdropping of system collectibles to users that matched custom criteria.

Toptal

2021 - 2022

Senior Full Stack Developer

- Built backend code to schedule cryptocurrency trades between tokens considering the current market volume to determine the maximum trade amount that won't alter the market price.
- Helped integrate multiple APIs using an event-driven architecture and serverless functions.
- Worked with the business and product teams to define the schemas needed for integrations to external APIs and their corresponding type definitions.
- Migrated a legacy AngularJS project to the latest Angular version and TypeScript.
- Built a complete application to allow factory floor monitoring of operations and create and see simulations to improve performance using Angular and FastAPI.
- Created Angular tables in which the user could edit the values in place with Excel-like features, such as copy, cut, and paste, and multicell selection.
- Developed Jupyter Notebooks to help visualize sensitive analysis of how much each input affected target functions' outputs.
- Built Gantt charts from parsed XML files using Highcharts and matched the visual identity of the client's software.

Aware

2018 - 2021

Senior Full Stack Developer, Tech Lead

- Spearheaded the codebase refactoring to allow a multi-tenant database, which achieved great savings in infrastructural costs in AWS.

- Configured the automation server for production deployments for Jenkins and Bitbucket pipelines.
- Developed a serverless service to connect our internal API with external APIs for our clients and allow hands-off, ongoing data migration into our system using AWS Lambda.
- Designed a malleable way for clients to store customized information on tables to match their needs without incurring extra overhead on data processing in PostgreSQL.
- Modeled entities to allow graph dependencies between questions to allow dynamic updates on form layout according to answers, using Angular, Node.js, and PostgreSQL.
- Took part in prioritizing and defining the tasks needed to further the value delivered to clients in an Agile environment.
- Defined and organized the tasks of each sprint to manage the expectations of various stakeholders using Scrum.
- Planned and implemented tests for the back end using Mocha with randomized inputs.

Embrapa

2018 - 2018

Full Stack Developer

- Created a LeafletJS plugin to allow displaying the spectral signature of RapidEye imagery on a map.
- Deployed an on-site instance of GitLab for repository management of the unit's software.
- Developed a Python script for the extraction of spectral signature from multi-band images for the AgroTag system, to correct for atmosphere interference on the images.
- Deployed the front end for easier processing and analysis of spectral satellite imagery overlaid on maps for geological analysis using PHP, Pug, and Bootstrap.

Time Energy

2017 - 2018

Junior Frontend Developer

- Designed the dashboard for an easy overview of average consumption and spikes on average household energy consumption taken from IoT devices using Angular.
- Developed Python scripts for automation of communication between servers.
- Documented and automated the internal process for the customization and installation of an OpenWRT fork for IoT devices.

Embrapa

2016 - 2017

Junior Frontend Developer

- Created a LeafletJS plugin to allow easier manipulation of map imagery for geological analysis of soil erosion over the years.
- Used D3.js to create dynamic Sankey graphs that showed the soil transformation on the Amazon basin.
- Designed the menu for the tools used by geologists to analyze the Amazon basin using jQuery.

PERSONAL PROJECTS

ETL pipeline for music trend analysis

- Extraction and organization of information available on Billboard's and Spotify's APIs
- Allows analysis of the evolving trends in music lyrics, rhythm and tempo

An Apache Airflow data ETL pipeline made to extract information from datasets and APIs and reorganize the data to allow later analysis. The project also uses Python's Natural Language Toolkit (NLTK) library to run sentiment analysis on the top tracks of each year.

I designed the star schema to ease the analysis of the data being pulled and the pipeline drawing data from three different open APIs into S3, which was later pulled into Redshift for analysis.

Personal expenses management

- Progressive web app to help people keep track of their day-to-day expenses

- Allows monitoring of monthly spending through graphs, and exporting the data in an excel spreadsheet

A progressive web app to help individuals keep track of their day-to-day expenses and monitor their monthly spending through graphs or export the data in an Excel spreadsheet.

Done using Vue, Node.js, and PostgreSQL, and hosted it in AWS with error-log management using Sentry.

This project was made and deployed solely by me based on database modeling, from front-end components to AWS deployment.

Task organizer for co-living arrangements

- Website to help co-living arrangements and management of their everyday tasks and errands
- Intended to help co-living student houses that have trouble dividing their everyday tasks, and keeping track of things done

An Angular application designed with Brazilian students in mind allows easy management of people responsible for household tasks and chores, with a gamification system to incentivize users to do things assigned to them. I single-handedly designed the front and back ends and deployed them to AWS. The application also has notifications and a chat system.

Done using Angular, Node.js, and PostgreSQL, and hosted it in AWS with error-log management using Sentry.

EDUCATION

Udacity	2020
Data Engineering Nanodegree	

Unicamp, Universidade Estadual de Campinas, Campinas	2018
Bachelor's degree in Computer Science	

Languages

portuguese (native), english (advanced), german (advanced)
spanish (intermediate), french (basic)