Vinicius Fraga

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Rua Goiás
Cornélio, Paraná

Summary

Self-driven, curious software developer, always looking to learn something new. I worked with local and international companies in the development of event-oriented REST APIs (async) with Python and Django, monolithic and distributed servers, automated tests (unit, integrated, end-to-end) with JUnit and pytest, client/server protocols with gRPC, and JDBC drivers; having open source contributions: Apache Arrow Flight SQL (gRPC + Protobuf) and Apache Arrow Flight SQL JDBC Driver.

Experience

Software Engineer (Contract)

Dremio • Remote
08/2021 - 08/2022
I worked on Flight SQL, which is a new client-server protocol developed for interacting with SQL databases that makes use of the Arrow in-memory columnar format and the Flight RPC framework.

It aims to provide broadly similar functionality to existing APIs like JDBC and ODBC, including executing queries; creating prepared statements; and fetching metadata about the supported SQL dialect, available types, defined tables, and so on. By building on Apache Arrow, however, Flight SQL makes it easy for clients to talk to Arrow-native databases without converting data. And by using Flight, it provides an efficient implementation of a wire format that supports features like encryption and authentication out of the box, while allowing for further optimizations like parallel data access.

I have contributed with the Java codebase by implementing missing specifications to comply with the JDBC API, while also creating automated tests and fixing bugs.

I also helped with adapting Dremio's Arrow Flight service to fully support a Flight SQL server endpoint that communicated with other internal data/query microservices to provide meaningful data/metadata that DBMSs require; while also working to produce a JDBC driver capable of communicating with it. It intended to target BI applications that take advantage of huge datasets such as Tableau, Looker, and SAP Dremio - since Dremio is a data lakehouse.

I've worked mostly on implementing metadata retrieval/providing methods - since most of these tools rely heavily on them to work properly - as well as creating tests with JUnit to improve code coverage, and fixing regression test differences. I also got a little experience with Jenkins from changing the regression framework to work with this new JDBC driver.

Skills: Java, JUnit, Object Oriented Programming (OOP), SQL, gRPC, Protobuf, Mockito, C++, GTest, Jenkins, Travis CI, JIRA, Atlassian Suite, TDD, Git, Gerrit, Google Cloud Platform (GCP), Docker

Fullstack Developer

Simbiose Ventures • Remote
06/2021 - 09/2022
I worked on FastCRUD, which was a framework that used server-side rendering techniques with Python (Django) along with JavaScript to allow developers to produce dynamic pages constructed with no code/low code. I implemented a SQLAlchemy dialect for communication with the company's internal query execution API using Python, as well implementing it on Django to allow database consumption on JavaScript clients. In the meantime, I worked to create an app for a physiotherapy clinic to manage patients, doctors, locations, etc, using FastCRUD. Since most of the work was from the underlying framework, I have mostly managed Django code and customized some front-end behaviors.

Skills: Python, Django, SQLAlchemy, OpenAPI, JavaScript, Git, GitHub, Azure Boards

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Skills

Problem solver, Fast learner, Python, Java, Communication, Teamwork, OOP

Education

Software Engineering

UTFPR - Universidade Tecnológica Federal do Paraná • Cornélio Procópio, Paraná
12/2024

Languages

Portuguese (Brazil), English

Certificates

Python 3 Programming Specialization, Object Oriented Programming in Java Specialization, Google IT Support Professional Certificate