Thomas Jose Ferreira Britton

Full Stack Developer

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Java | Spring | JavaScript | React | Python | Django | SQL

Experience:

Full Stack Developer

Dufrain, Edinburgh

Jan. 2023 - July 2023

I was tasked with creating a front end for their application using React, the project was a success and exceeded expectations, delivering a fully functional front end integrated seamlessly with their database and accompanied by a new secure Django server.

- **Front-end:** Node, React, Redux Toolkit, Styled Components, React-Monaco-Editor, Recharts.
- **Back-end:** Python, Django, Django Rest Framework, Microsoft SQL, PyTesseract.
- **Secure Authentication:** Implemented secure user authentication through JWT tokens stored in cookies, configurable user privileges.
- **Advanced API Management:** Introduced libraries for front-end API generation using rtk Query and state management slices with Redux Toolkit.
- **Efficient Development:** Engineered a library of templates for automatic generation of responsive front-end pages and RESTful requests, streamlining processes.
- **Knowledge Transfer:** Trained two analysts on the developed framework, ensuring seamless team integration.
- **Timely Completion:** Successfully delivered a fully integrated front end and server within a six-month timeline.
- **Cost Efficiency:** Saved the company £42,000.00 compared to the original external contractor quote.

Clinical Research Assistant

AlbaScience, Edinburgh

Nov. 2021 – Aug. 2022

Optimized and streamlined many work processes, by automating a number tasks on excel that were previously done manually, thus allowing the team's time to be used more productively.

Manufacturing Technician

Siemens Healthineers, Oxford

Jun. 2017 – Nov. 2020

Experienced in manufacturing magnetic resonance imaging devices and optimizing daily tasks for efficiency. Received several work awards for innovative solutions, including automating measurement device software through macro functions to reduce errors and improve user-friendliness.

Portfolio:

Rogue Bookings

JavaScript/React | Java/Spring.

An all in one business platform that allows users to start a business. Businesses are able to offer bookings to new customers and also to handles staff services, such as rotas, payments, reviews etc...

In this project I experimented using generic types in Java, which allowed for the creation of a single serializer capable of handling all of the applications requests and adapting itself based on the input type.
Successfully harnessed the power of Object-Relational-Mapping (ORM) to create complex yet maintainable databases.

Github Repo :
https://github.com/Grilo16/RogueBookingsClient (front-end)
https://github.com/Grilo16/RogueBookingsServer (back-end)

Live project : https://grilo16.github.io/RogueBookingsClient/

Ducky's Revenge 3D

JavaScript/React

A full 3D game built in using react. The SVGs used for the project were made using Figma, The 3D assets were modelled in 3D Studio max, and the entire logic for the game and rendering of the 3D and 2D assets was done in react.

Handling 3 dimensional data in web format, and getting a deep understanding of vectors, and the useMemo hook in react for the creation of instanced objects reducing computational load.

Github Repo : https://github.com/Grilo16/client-duckys-revenge-3d

Live project : https://www.duckydomain.com/

Ducky's Revenge

JavaScript/React

A top-down shooter mini-game, where the player has to target and shoot enemies, game also offers map making functionality, the user made maps can then be saved and played by the user. The game stores the user created maps in the browser local storage, allowing the application to store data from previous map creations between user sessions, whilst being serverless.

Creating and using reducers, and personalized hooks allowing the code to handle increased complexity, in a predictable and manageable way.

Github Repo :
https://github.com/Grilo16/DuckysRevengeGitHost

Live project : https://grilo16.github.io/DuckysRevengeGitHost/

Education:

Professional Software Development

CodeClan

Professional software development boot camp, 800 hours of in person coding experience, covers Python, HTML, CSS, Java, JavaScript, MongoDB, Postgres and more.

Bachelor of science: Biomedical Sciences

Oxford Brookes University

CS50x

Harvard-Edx

Online computer science introduction course, covers C, python, html, algorithms, and more.

CS50p

Harvard-Edx

Online python course, covers language features in detail such as list/dictionary comprehension, class design, and integration with web using flask and jinja.

Languages

English
Native

Portuguese
Native

Spanish
Proficient