Leigh-on-Sea, UK
Portfolio | Github | LinkedIn

Jools Barnett

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I am a motivated front end developer, changing careers after many years in the creative writing field. I consider myself a creative problem solver, passionate about using my skills to find solutions to challenges and problems using technology as a tool.

Core Skills

- Languages: JavaScript, TypeScript, HTML, CSS, SQL, Python
- Frameworks: React, Next.js, Redux, Node.js, Express.js, Tailwind CSS, SASS
- Database: PostgreSQL, NoSQL, MongoDB
- Other: API Integration and Development (REST), Unit and Integration Testing with React Testing Library, Web Scraping with Axios, Puppeteer and Cheerio.js

Freelance Experience

Freelance Web Developer   **2020 - Current**

*Key Project - **Essence & Elements***   **Website | Github Repo**

- Consulted with the client and assessed their requirement for a website to promote and sell their spiritual healing services and products, whilst also having very little money available to spend at such an early stage in their business.
- Devised and negotiated with the client on an appropriate solution. As the amount of products is very low (less than 30) and unlikely to change often, products were to be sold directly through Ebay for managing payment, with item pages on the client's website linking to the relevant Ebay page. Furthermore, as the client required direct contact with customers via email for organising their services, this was achieved through integrated contact forms.
- Coded a fully responsive full stack website with a Next.js SSG frontend and CMS (Strapi) backend.
- Engineered solution to allow simple upscaling in the future if the client wishes to integrate payment solutions into the website directly, involving technology such as the Paypal API or the Stripe API.
- Maximised money saved by using Netflify and Heroku (free tier) for free hosting.
- Surpassed customer's expectation on money saved as solution only required one flat fee for work involved and domain name, and no monthly subscription costs for hosting or services.
- **Stack**: Next.js, Typescript, Tailwind CSS, Framer Motion, Apollo, Strapi, GraphQL, PostgreSQL

Notable Personal Projects

uBooze   **Website | Github Repo**

- Identified a gap in the market for customers that want to know the cheapest prices for alcohol in their local supermarkets.
- Built a complex fully responsive full-stack PERN price comparison website for comparing alcohol prices in all major UK supermarkets, with the ability to filter results by supermarkets found within a 1-3 mile radius of a customer's postcode.
- Oversaw completion over a 12 month period, from initial concept to professional shippable product.
- Developed my own REST API to communicate with the frontend, for interaction with the database, authorisation, user accounts, and geolocation functions.
- Integrated with Facebook API and Google API for OAuth functionality, and Mapbox API and Foursquare API for geolocation and nearby supermarket functionality.
- Created a custom web scraper utility with Axios, Puppeteer and Cheerio.js to scrape the supermarkets' websites for current product prices and details, to upsert into the cloud based PostgreSQL database.

- Implemented social media functionality, allowing users to favourite products and share their own favourites page with other users.
- **Stack**: Next.js, Tailwind CSS, Redux, Express.js, Node.js, PostgreSQL

Watchlist   **Website | Github Repo**

- Recognised a need for users of the movie list website icheckmovies, who want to know what movies on a list are currently available to stream in their country on Netflix and Amazon Prime.
- Coded a fully responsive serverless web app using Next.js serverless functions, that scrapes the movies from an icheckmovies list page and returns a list to the user of movies currently streaming in their region on Netflix and/or Amazon Prime.
- Integrated with The Movie Database API for movie data and streaming availability.
- Overhauled and streamlined from a project I originally designed in Python, and then in Vanilla JS.
- **Stack:** Next.js, Serverless Functions, Typescript, Tailwind CSS, Framer Motion, Axios, Cheerio.js

Oscar, Willow & Khan   **Website | Github Repo**

- Evaluated my skill set and identified I required a portfolio project to demonstrate my ability to create a fast and clean single page brochure website.
- Produced a single page brochure website for a fictitious investment company, utilising Next.js and Static Site Generation.
- **Stack**: Next.js, Typescript, Tailwind CSS, Framer Motion

Other Technical Skills

- Visual Studio Code
- Git and Github
- Windows, Mac OSX and Linux
- Bash
- Jest
- Framer Motion
- React Query
- React Hook Form
- CMS integration (Strapi) with GraphQL and Apollo.
- Knex.js and Objection.js
- Passport.js
- Fundamentals of Java, C# and Go.
- Data Structures and Algorithms.

Education

Rochester Institute of Technology   **2018 - 2019**
MicroMasters, *Cybersecurity* (Grade: 98%)   New York, USA

Open University   **2007 - 2010**
LLB (Hons), 2:1, *Law*   Milton Keynes, UK

Interests & Hobbies

In my off time, I'm a screenwriter and independent filmmaker. Creative writing and the pursuit of collaborative storytelling has always been a major passion, and right now I'm in the end stages of pre-production for a comedy sci-fi web series being developed with a director friend. I'm also learning Spanish and love to play (very bad) chess.