DANIEL BLY

Full-Stack SaaS Developer

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SKILLS

Languages

- HTML/CSS
- PHP
- Ruby
- JavaScript/Typescript
- Java
- C#

Frameworks

- React/NextJS
- Laravel
- ExpressJS
- NestJS
- Ruby on Rails

Databases

- MySQL
- PostgreSQL
- MongoDB
- Neo4j

DevOps

- Git
- Docker
- CI/CD + pipelines
- AWS (S3, Lamda)

WORK EXPERIENCE

Full-Stack Laravel Developer

Commute (Wolf Ltd)

📅 December 2018 - November 2019   📍 Auckland, NZ

- Worked along side a small team to upgrade Skycity's internal transport booking system.
- Application was developed in PHP 7 using the Laravel framework in conjunction with a MySQL database.
- Implemented UI as well as created reporting systems to fetch, parse and display analytical data.
- Designed and implemented API whilst upholding existing client requirements.
- Developed administrator tools used for fleet and user management.

Full-Stack SaaS Developer (Freelance)

Phoenix Media Design Ltd

📅 September 2020 - current   📍 Auckland, NZ

- Working mainly in JavaScript frameworks (React, NextJS, Express) and now Typescript, I have created a variety of fast and scalable applications for my clients.
- One notable application was Flicka NZ, developed in React alongside a Ruby on Rails backend and paired with a PostgreSQL database. Flicka was created to be an online marketplace for businesses and consumers with a rewards system that allowed people to enter in user-driven draws.
- Another prominent application is Dataset's Media Portal, which is currently being developed in NextJS, with an Express backend alongside a Neo4j graph database because of it's advantages in storing and representing relational data. Dataset's Media Portal is designed to acts as a social media application and discovery tool for electronic music artists across New Zealand.

PROJECTS

Commuter (v2)

Full-Stack Developer

- Worked with a small team on the design and implementation of a updated version of Skycity's internal transport booking system.
- Utilized PHP and the Laravel framework to create booking management, reporting and administrator tools.
- Designed and implemented API constrained to client specifications.

Flicka NZ

Full-Stack Developer (Contract)

- Flicka NZ was developed using a ReactJS frontend and utilized Ruby on Rails with a PostgreSQL database for required performance and security.
- Stripe was implemented as a secure payment gateway for cards, Paypal and ApplePay, as well as allowing users to be paid programmatically for any items sold.
- Firebase was used for image storage as it's ease of implementation and pricing model made it cost effective to implement within the clients budget.

Dataset Media Portal (Beta)

Creator / Full-Stack Developer

- Dataset's Media Portal is currently in beta and is being designed as a social media and discovery platform for electronic artists across New Zealand.
- Social media applications handle a lot of relational data, and therefore the graph database Neo4j was used alongside an ExpressJS backend.
- As handling lots of user uploaded media was a requirement for the application, AWS S3's pre-signed URLs were leveraged to allow users to securely upload files from their browser, reducing the load on the server without sacrificing security.
- The Dataset webapp is now being converted to Typescript for additional robustness of code once additional developers are contracted, and will soon implement an integrated music player as well as a CV/profile builder to help artists market themselves to potential employers.

Commuter (v3)

Creator / Full-Stack Developer

- I am developing Commuter v3 in partnership with it's owner as modular cooperate booking software, designed to be marketed to additional clients beyond Skycity.
- Commuter v3 is is designed to handle multiple tenants per customer and uses a database-per-tenant approach to ensure data separation and security. This also enables application scalability by allowing clusters to be created and optimized per service to fit client's needs.
- MongoDB is used for it's flexible schema structure and paired with an NestJS (Express) backend for it's modular approach to application design. The app utilizes a central API with dynamic database connections which are created and cached to allow seamless operation for each tenant.

- Commuter is being designed with a modular approach, allowing systems such as transport or event booking to easily be extended for rapid development and tailoring to a clients individual needs.