John Marsden Full Stack Developer

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An ambitious and innovative full stack developer with 10 years' experience as a CNC and robotic programmer for the architectural and aerospace sectors. During which I worked with multidisciplinary teams on global projects with high profile clients such as Apple, Bloomberg and Airbus.

I've been passionate about building and technology all my life and this passion fuelled my decision to retrain as a developer. I have a particular interest in APIs and automation which compliments my strengths from my engineering background. I now bring my existing and new technical skill sets to web development and the creation of digital solutions for end-user applications.

Projects

Tracked
A two week bootcamp project pitched by myself and built in a team of four on a **Rails** framework, where users can track multiple deliveries and see their overall delivery data in one place.
- Developed the backend which handles **REST API** requests using **Ruby**
- Designed the **responsive** frontend using **HTML** and **SCSS**
- Implemented the includes **eager loading** functionality to limit the queries made to the database

Playlistify
A Spotify API based SPA built with **React** where users search for tracks and save newly created playlists.
- Wrote **JavaScript ES6 asynchronous** functions to handle the **API** requests
- Utilised **CSS animation** to give feedback to the user resulting in a greater user experience

Blanck Mass
A commissioned website for a musician who wanted to expand his online presence and have more freedom on the content he posted than was available with his previous host.
- Designed the **class inheritance** structure for similar objects resulting in easily maintainable code
- Incorporated **pagination** to display the content saved in the **PostgreSQL** database

Education

Le Wagon - Full Stack Web Development Bootcamp
London | Jan '20 - Mar '20
- Full-stack web development bootcamp comprising of TDD principles across a stack of Ruby, Rails, SQL/PostgreSQL, JavaScript ES6, HTML, SCSS/CSS, product management and Github versioning

Arts University Bournemouth
Bournemouth | Sep '08 - Jul '11
- BA (Hons) Modelmaking

Employment

CNC Programmer and Operator
Chanel | Oct '19 - Dec '19
- Reworked an existing project to increase the quality of the part and reduce its cycle time by 25%

5 Axis CNC Programmer and Application Engineer
Attewell | Aug '18 - Sept '19
- Reduced the lead times on one of the most time consuming projects by up to 40% by incorporating the use of 3D printed fixtures
- Created a workflow which logged lead times which allowed job quotation to be more accurate

CNC Programmer and CAD Engineer
Foster + Partners | Nov '13 - Jul '18
- Expanded the workshops CNC capacity and brought over 90% of jobs in-house which lead on to the introduction of improved software and machines

Languages
- JavaScript ES6
- Node.js
- Express.js
- React
- Ruby
- Ruby on Rails
- HTML
- SCSS/CSS
- MySQL
- PostgreSQL

Technical skills
- OOP concepts
- TDD workflow
- REST APIs
- MVC architecture
- Github
- Bootstrap
- UI/UX
- Heroku
- CAD/3D modelling
- Adobe packages

Soft skills
- Team-oriented
- Excellent communication
- Self-motivated
- Detail-oriented

Interests
- Technology
- Photography
- Travelling
- Art and design