

# Lewis Miller

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## Education

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### Aston University, Birmingham

(September 2018 - May 2021)

*BEng (Hons) Electronic Engineering and Computer Science (1st) with award for best final year project*

### Tudor Grange Academy, Solihull (Sixth Form)

(September 2016 – June 2018)

*A-levels: History (A), Maths (B), Physics (B)*

## Experience

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### Sales Assistant

(July 2021 - present)

*HMV Solihull*

- Excellent communication and customer service skills gained through all aspects of the job, including handling customer queries as evidenced through direct positive feedback received from customers
- I work within a team of people without pre-set job responsibilities, which has furthered my communication skills as we work together to delegate tasks and cooperate to complete tasks
- Working during peak retail periods, such as Christmas and school holidays, has given me the ability to work well under pressure, multitask effectively and adapt myself to best suit the current situation
- Working with a range of internal IT systems has given me an awareness of the role software plays in the function of a business and the importance of providing a reliable, effective and easy to use product
- I can work well independently and use my initiative, for example seeking out local bands to perform in the store and the ability to change product displays to keep up with popular trends
- I have a perfect record of timekeeping, attendance and punctuality

## Projects

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**Mock Blogging Website - Site:** <https://blog.lewis-miller.dev> **GitHub:** <https://github.com/Lewis-27/blog>

- Built using the MERN stack
- Backend server and API built in Node using the Express framework handling HTTP requests with full CRUD functionality
- Passwords hashed using bcrypt and user credentials stored using JWT authentication
- User and post data stored in MongoDB database and interacted with using Mongoose framework
- Frontend built from React components and styled with TailwindCSS
- Mobile-first reactive layout compatible with all screen sizes
- Global state and API calls managed with Redux and Redux Toolkit
- Deployed on Render.com hosting using custom domain name
- Version control using Git

**Personal Portfolio Website - Site:** <https://lewis-miller.dev> **GitHub:** <https://github.com/Lewis-27/portfolio>

- React website built in Vite and run on a NodeJS server
- Each page consisting of a series of React components styled with TailwindCSS and linked together using React Router
- Mobile-first reactive layout compatible with all screen sizes
- Deployed on Netlify with custom domain name
- Version control using Git

### Final Year Project

- Developed a digital effects processor for a guitar to achieve the effect of delay constructed from a Raspberry Pi and Analog/Digital Converters with signal processing and effect creation written in C code
- Market analysis was carried out to ensure the product filled a gap in the market
- I created a design brief and project proposal which were evaluated against the final results to measure the success of the project
- Tests conducted on signal quality via oscilloscope measurements and frequency responses to accurately measure the functionality of the final project against the aims set out in the proposal
- I used my project proposal, design brief, explanation of my methodology, testing results and analysis of the success of the project to compile my dissertation, including a presentation to the board of lecturers
- My project was awarded best final year project

## Technical Skills

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**Languages used at university:** C, Java

**Languages, frameworks and developer tools:** JavaScript, HTML, CSS, TailwindCSS, MongoDB, Mongoose, React, Express, NodeJS/npm package manager, Redux/Redux Toolkit, Git/GitHub, Python