Lewis Miller

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Education

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

Sales Assistant (July 2021 - present)
HMV Solihull

- Excellent communication and customer service skills gained through all aspects of the job, including handling customer queries and requests, 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

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
- Data about users and posts 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

Final Year Project

- Developed a digital effects processor for a guitar to achieve the effect of delay
- Constructed from a Raspberry Pi, Analog to Digital Converter (ADC) and Digital to Analog Convertor (DAC) 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

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