

Education

Nottingham	University of Nottingham	Sept 2020 - July 2024
	<ul style="list-style-type: none">MSci Computer Science inc. International Year	2020/21, 2:1 (68%)
Halifax	The Crossley Heath School	Sept 2017 - June 2019
	<ul style="list-style-type: none">Computer Science, Photography, English Literature, Psychology	A*, A*, C, C

Employment

Software Engineer	Losource Ltd	Nov 2019 - Sept 2020
	<ul style="list-style-type: none">Developed the next generation of website templates & components to be used for new clientsIntegrated WordPress with Gatsby-based frontends, pulling data through a GraphQL layerContributed upstream patches to Gatsby (JS) and WPGraphQL for Gravity Forms (PHP)Developed statically-generated React & Gatsby based frontends	
Graphics, Work Experience	Gill Graphics	March 2018
	<ul style="list-style-type: none">Created mock-ups of showcase booths using industry standard tools (Adobe etc.)Learned about the business side of the Graphic Design industry, how the dynamic requirements of clients are met satisfactorily, with back and forth collaboration	

Personal Projects

Music Streaming Server

github.com/etylermoss/go-music

- Created a full-stack music streaming server, written in TypeScript with Node.js
- API endpoint uses GraphQL, models shared across front / backend
- Internal server-side SQLite3 layer, utilised through dependency injection
- Secure authentication *and* authorization for every resource / request, access control list model

BCD Alarm Clock

github.com/etylermoss/alarm328

- BCD alarm clock built from scratch
- Custom electronics schematic & PCB designed in Fritzing
- ATmega328P CPU running C++ code to drive the device
- 74HC595 digital shift registers to control output LEDs

Technical Skills

- Languages: C, ARM, JavaScript/HTML/CSS, SQL, GraphQL, Java, Python, Bash (et al.)
- Frameworks and Libraries: SDL2, TypeScript, Vue, Electron, Node, Express, React
- Tools: Git, Linux (+ GNU, systemd), QEMU, Vim, Adobe