

EMPLOYMENT

School of Engineering IT Team Intern 2019 • Created a highly configurable and robust Vue component used for many database management related internal applications for the University of Edinburgh IT Team. *Vue, REST API*

TrapIt Freelance Website Design 2018 • Delivered a blog-like page with post creation and editing for YouTube channel and Label owner of TrapIt. *React, Firebase*

Viola da Gamba Society Freelance Website Design 2016 • Delivered a complete redesign of the old VdGS website with a new framework for the web administrator to continue development in the future. *Javascript, PHP*

Oxford University IT Services Intern 2015 • Created a simulation for how sound bounces around inside a 2D room using a novel agent-based language. *NetLogo*

EDUCATION

Computer Science BEnd Hons (First)
University of Edinburgh

Dissertation • Optimisations in deep learning methods for Jazz chord generation. *Python, PyTorch*

PROJECTS

Noxive • My electronic music production hobby ongoing since 2014 with over 500,000 views across all platforms. The official website has a built-in music player to showcase my discography. *Vue, Firebase*

Chess Robot Group Project • Lead a software team of 5 to develop a robot capable of playing chess on a physical chess board. Our team won second place in an Össur competition out of 22 groups. *Python, PyTorch*

Superchess • Created a multiplayer web game based on chess but with more pieces and a configurable setup. Features a challenging AI with multiple levels of difficulty. *React, Websockets, Heroku*

Genetica • Co-created a mobile game about genetic modification and galactic domination. Find the perfect combination of attributes for your species and watch them dominate one planet after another. *Unity, C#*

Owme • Created a web app to help track the debts within groups of friends with PayPal integration, used extensively by my flatmates and me. *Javascript, PHP*

House Music Generator • Created a windows app capable of generating a section of music complete with drums, melodies, and chords. *C#*

Encryption-secure Chat • Cretaed a real-time, AES-encrypted web messaging app with self-deleting messages. *React, Websockets, Heroku*

Alarm Timer • Created a novel interface to setting alarms and timers on Android. *Android, Java*

Ultrasound Transceiver • Co-created an app capable of sending and receiving small amounts of data between everyday mobile devices over ultrasound. Created during a 24h CreatED hack. *Java*