Felix Wu

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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. vdgs.org.uk <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 BEng 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. noxive.com <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, Raspberry Pi, REST API>

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. superchess.felixwu.me <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. chat.felixwu.me <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>