Felix Wu

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EDUCATION

Computer Science BEng Hons (First)
University of Edinburgh 2020

3 A-levels *(A*, A, B)*, **14 GCSEs** *(5 A*)*

LANGUAGES

Triligual:
English • Native *(First language)*
German • Native *(GCSE A*)*
Cantonese • Rusty *(GCSE A*)*

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)* vdgs.org.uk

Oxford University IT Services Intern 2015 • Created a simulation for standing waves inside a variable 2D room using a novel agent-based language. Achieved gold CREST award. *(NetLogo)*

PROJECTS

Noxive • My electronic music production hobby ongoing since 2014 with over 750,000 views across all platforms. The official website has a built-in music player to showcase my discography. *(Vue, Firebase)* noxive.com

Chess Robot Group Project • Lead a software team of 5 to develop a robot capable of playing chess on a physical chess board, using only a camera as input. Our team won second place in an Össur competition out of 22 groups. *(Python, PyTorch, Raspberry Pi, REST API)*

Dissertation • Optimisations in deep learning methods for Jazz chord generation. *(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)* superchess.felixwu.me

Genetica • Co-created a mobile game about genetic modification and galactic domination. The game features full 3D graphics with complex animal behaviours to create a self-balancing ecosystem. *(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)* chat.felixwu.me

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)*