FELIX WU

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EMPLOYMENT

2Simple Software Developer - since 2020
(Vue, TS/JS, HTML/CSS, Jest, JQuery, Sass, Backbone, PHP, Node)
- Implemented major updates to all areas of the app "2Publish" - the 3rd most used web app on the platform with over 1M hits/mo. The redesigned interface and additional functionality allowed users to work with the app more effectively and intuitively. User feedback was very positive and support cases were fewer than expected, given the size of the update.
- Created a new app "PDF Annotator" for the platform, used by many teachers to create activity sheets and online homework assignments.
- Implemented a redesigned interface for the app "2Create A Story" - the 7th most used web app on the platform with 500k hits/mo. The long-overdue modernisation was well received by customers.

Aspect FS Freelance Software Developer 2020
(React, Typescript, Firebase, Jest)
- Created a platform to optimise face-to-face fundraising campaigns.
- Significantly cut running costs compared to the previous system by integrating more cost-effective API services, while retaining and extending functionality.

UoE School of Engineering Intern 2019
(Vue, REST, Mocha, Chai)
- Built the front-end of a system to replace the database management tool used daily by HR administration.
- Reduced response times to the Python back-end by up to 90% for most operations.
- Extended or simplified existing functionality for a much-needed workflow improvement.

EDUCATION

Computer Science BEng Hons (First Class)
University of Edinburgh 2020
Top class prize for best performance in degree.

TECHNICAL SKILLS

Most proficient in: TS/JS, Vue, React, HTML, CSS, Git
Knowledgeable in: Python, Java, C#, C++, PHP, Bash

PROJECTS

Superchess (React, Node, Websockets)
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

Noxive (Vue, Firebase)
My electronic music production hobby since 2014 with over 1M views across all platforms. The official website has a built-in music player to showcase my discography. noxive.com

Chess Robot Group Project (Python, PyTorch)
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.

Dissertation (Python, PyTorch)
Optimisations in deep learning methods for Jazz chord generation. Created a very capable model and a grade of 80%.

Truly Global State (Typescript, React)
A global state management library for React that addresses some of the issues with the developer experience of other state management libraries for frameworks like React and Vue. npmjs.com/package/truly-global-state

Dots & More (Vue, Firebase)
A twist on the classic Dots and Boxes game where lines between adjacent dots are not the only lines that can be drawn. dots-n-more.web.app