

SIDNEY BROWN

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I am a software engineer with a keen interest in web, applications, mathematics and creative problem solving.

Skills

Python | JavaScript/TypeScript | PHP | Dart | C | SQL | Bash | HTML | CSS
Django | React | NodeJS | Flutter | MySQL/PostgreSQL | Git | Tailwind | Wordpress | Linux | Apache | Docker
Web/App Dev | SysAdmin | DevOps | Cybersecurity | Server Management | System Design | Networking

Experience

SOFTWARE ENGINEER, CAMBRIDGE LOGIC – 04/2023-PRESENT

- Managed, trained and onboarded a small team and lead projects of a range of complexity to completion. Attended conferences and gave talks and demos, securing interest and excitement in the products we are building.
- Built and designed a **Django** application using an **MVT** architecture to manage licensing of various software (including the applications below), with an order system, client dashboard, invoice generation, email notifications and account management; connecting with a local mail server and a **SQL** database, deployed on an **Ubuntu** server using **Docker**.
- Built and designed a **Flutter** application with **Dart** to automatically calibrate roulette wheels by connecting with a **Bluetooth Low Energy** device, efficiently delivering data from its accelerometer and magnetometer and decoding it to display in real-time a custom 2D spirit level. Deployed on iOS, MacOS and Android with account management and secure data storage managed by both **Firebase** and **MariaDB**.
- Created and designed many intricate database schemas in **SQL**, taking care with efficient **indexing**, **foreign keys** and **transactions**; connecting to **API endpoints** securely and facilitating tens of thousands of queries per day.
- Built a **PHP Framework**, **DBMS** and **API** to store blood test results securely and allow hospital operators to access historical patient records. Designed a protocol for data transmission, tests for data integrity and a custom auth system.
- Built and maintained a **PHP** application/dashboard to serve real time data and game analytics to casinos securely. Currently upgrading said application to work with **Python** on the **Django** framework.

WEB DEVELOPER, SQUARESTAR DIGITAL – 02/2022-04/2023

- Used **NextJS** and **React** to create a component library for faster website deployment using custom block templates.
- Managed and built full projects, from idea/proposal to launch using **HTML**, **CSS**, **Javascript**, **PHP**, **SQL**, **AJAX** and **Tailwind** to create **Wordpress** themes and plugins for bespoke websites, using **GIT** for version control.
- Developed strong front-end capabilities and an ability to take a design and put it into code quickly and accurately. Also gained knowledge in **Cacheing**, **debugging** and **documentation development** as well as **REST API** creation.

WEB DEVELOPER AND VIDEO EDITOR, FREELANCE – 2020-PRESENT

- Built and designed websites using **React**, **NodeJS**, **NextJS**, **Vite**, **PHP**, **HTML**, **CSS** and **Wordpress**. These websites use a number of tools such as **GIT** for version control, **MySQL** and **Strapi** for data management and have been deployed on personally-run servers using **LAMP/MERN** stacks and containerisation tools such as **Docker**.

PRIVATE TUTOR – 2015-2022

- Taught A-Level and GCSE Mathematics, Guitar and Piano

Education

University College London – BSc Mathematics and Physics, 2020

A-levels: Mathematics (A*), Further Mathematics (A*), Physics (A), Chemistry (B)

GCSEs: Maths, Physics, Chemistry, Biology, English (Literature), English (Language), Theatre Studies, IT, Astronomy, French, Geography

Interests

Piano | Guitar | Education | Photography | Videography | Video Editing | Final Cut Pro | Languages | Singing
Mathematics | Physics | Astronomy