BEN WILLIAMSON

Software Engineer

PROFILE

Driven and creative Computer Science student with a passion for new technology. Currently completing second year of CS BSc while contracting for clients in tech fields and volunteering development services for local organisations.

EMPLOYMENT HISTORY

Email Campaign Developer, Marcus Sanderson LTD, Corby Glen

JULY 2021 — PRESENT

Designed fully cross platform multimedia email campaigns and infrastructure required to test them on all email clients with significant market share.   Worked with large clients including LV insurance, Experian, MetLife, etc.

Systems Design Contracting, Airblast LTD, Grantham

AUGUST 2022 — SEPTEMBER 2022

Built and delivered an IoT hardware solution and fullstack webapp to record, store, and serve workshop tasks via an app to be displayed on monitors across the organisation. The app is Cloud Hosted to avoid downtime and uses IoT management tools from www.balena.io with real time messaging from Firebase.

Kitchen Porter, Amore Italian, Stamford, Lincolnshire

APRIL 2023 — SEPTEMBER 2023

PROJECTS

Movein - App to find Housemates, Durham
Built a startup app with support from Durham Venture Lab to assist with the University housing crisis by better connecting people looking for housemates.

Built using Flutter and targeting both Android and iOS via their respective stores, and using a Firebase and Azure backend to allow profile creation and image storage and instant messenger with engagement generating notifications.

Inspection Robot, Bourne, Lincolnshire

SEPTEMBER 2020 — AUGUST 2022

Using industry leading CAD software I designed and built a remote inspection rebot using 3D printing and Laser Cutting in consulation with an industry stakeholder. The system controller design uses an Arduino programmed in C++ to communicate with a custom remote controller to control four stepper motors and uses radio frequency to stream realtime images back to the operator.

IoT Challenge - Hamster Tracker, Bourne, Lincolnshire

SEPTEMBER 2020 — AUGUST 2022

Developed an IoT Hamster Wheel able to track and record the distance run by a hamster before plotting this information on a world map. The system allows multiple users to race their pets across the map in an effort to make small pets more engaging. Built using an ESP8266 and writen in C++, React, Python and Node.js.

VOLUNTEERING

Full Stack development and site management, Bookflix, a local book club

SEPTEMBER 2021 — PRESENT

Built and managed a multi-user book review and recommendation site for a book club in a local school. Site built using Firebase and React.js via the Next.js framework.

Youth Club Worker, Corby Glen Youth Club, Corby Glen

MAY 2018 — JUNE 2022

Set up and lead a youth club for young people in my village.

Shopkeeper, Castle Bytham Community Shop, Castle Bytham

FEBRUARY 2022 — PRESENT

EDUCATION

Computer Science (BSc), Durham University, Durham

SEPTEMBER 2022 — PRESENT

Currently a second year CS student at Durham, having achieved 75% average in first year modules.

A Levels, Bourne Grammar School, Bourne, Lincolnshire

SEPTEMBER 2020 — JULY 2022

Achieved four A* grades in Computer Science, Mathematics, Physics and Design Engineering.

GCSEs, Bourne Grammar School, Bourne, Lincolnshire

SEPTEMBER 2018 — JULY 2020

Achieved ten grade 9s in GCSEs including Computer Science, Maths, Further Maths, Physics and Design Engineering.

LINKS

Website

SKILLS

Python

JS

TS

Micropython

React JS

Dart

C