# Benjamin Parsons-Willis

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## Technical Skills

**Languages:** Python, Java, Javascript/TS, C/C++, Rust, HTML+CSS
**Frameworks/Libraries:** Flask, FastAPI, MongoEngine, VueJS, Svelte
**Platforms:** Google Cloud Platform, Github/Gitlab CI, Wordpress
**Proficiencies:** Linux(Arch/Ubuntu), Basic System Administration
**APIs:** Square, Etsy, Ebay, Shopify, WooCommerce/Wordpress

## Employment History

**Kitchen Porter @ The Gannet, Glasgow** :: Part-Time

My role is to maintain cleanliness & assist the chefs with their work. A small, high-class restaurant with high expectations of its employees. As the only porter, it can be stressful & difficult at times, but it's honest, flexible work and I have gained a lot of experience working in a team.

Employed from November 2021 - Present

**Developer @ Sunday Studio**:: Self-Employed

At Sunday Studio, I managed a wordpress/woocommerce site; implementing required features. I also worked on a suite of automation scripts to enable the continuous synchronization of product data & stock between various sales channels; namely Square, Etsy, and Shopify.

During my time there, I migrated the site from a shared hosting provider, to a VPS based Plesk instance, as well as transferring email to G-Suite.

Employed from November 2019 - 2021, left for University

**Developer @ UpWork**:: Self-Employed

During my time at college, I worked for various clients on the UpWork freelancing platform. I wrote many python scripts, namely to scrape data from the Tel Aviv stock exchange, as well as to transfer product data between Etsy & Shopify.

Employed from November 2019 - 2021, left for University

## Areas of Study

### Year 1

Mathematics, Electronics Engineering, Networks & Databases, Systems (Assembly), Human Computer Interaction

### Year 2

Algorithms, Networks/Operating Systems, Digital Electronics (VHDL), Analogue Circuits (Transient Analysis), Electronic Design Project, Object Oriented Programming, Embedded Processors, Linux & C

## Education

**University of Glasgow** :: 2021 - Present

**Major:** Computer Science
**Electives:** Electronics & Embedded Systems
**Graduation:** Spring 2025

**Uckfield College** :: 2019 - 2021

**Studied:** Computer Science, Maths, Further Maths
**Results:** A*AB

## Notable Projects

**Heart Monitor - EDP2** :: University

As a team, we were tasked with developing both the PCB & software for a PPG based heart-rate monitor. We used industry tools, including ORCAD, PlatformIO, and MBED-OS.

Full length report available on request.

**Etsy-Py** :: Personal

Given my extensive use of the Etsy API for freelancing work, I became frustrated by the lack of a up-to-date, usable API driver. I chose to write my own, which built itself from the schema published by Etsy.

Although Etsy has now moved on to a new major version, rendering this library obselete, it is my best example of a rigourous and well thought out library project.

## Current Project

**Thales UK** :: University

I am currently working with a team of 4 others to develop an application to index, and query geographic data.

The aim of the project is to enable query's of rectangular regions, and find all the files containing data which overlaps these regions.

This project is written in Rust, and requires parsing geotiff, kml, dtm, and more. We also work with R-Star trees, to create the index.