

DAVID WINCH

SOFTWARE ENGINEER

CONTACT

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EDUCATION

BSc COMPUTER SCIENCE

First Class with Honours

Swansea University - Wales

2009 – 2012

Specialising in Java development, my dissertation focused on creating a calendar application for Android – focusing on adding and extending functionality and crafting a smarter UX.

SKILLS

Python	JavaScript
Pandas/Numpy	C#
Matplotlib/Scikit-learn	Unity 2D & 3D
Jupyter Lab/Notebooks	Version Control (Git)
Open CV and Pillow	SQL including ORMs
Django	Online Marketplace APIs
Flask	AWS/GCP
Fast API/SQL Model	Heroku/Vercel/Netlify
Scrapy	Bootstrap 5

PERSONAL

My passion for programming started as a teenager. Early experiences involved modifying video games using a simplified version of C and using Lua to write my own games.

This passion for technology outside of work continues to this day. I have created immersive experiences for my Dungeons and Dragons group and completed exploratory data analysis of police data and Tinder swiping habits. I have also produced applications for use by video game streamers, which integrate with Twitch and OBS Studio.

I believe in giving back to local communities and charities and using my skills to support them however I can. I am creating a system for operational data input for a local hedgehog rescue centre. This system enables easier data management, time-saving, and analytical reports for staff and trustees.

Looking after my mental and physical health is important (as it should be for anyone). I ensure I always find time for rock climbing/bouldering and paddle boarding - both of which remind me of the skills surrounding problem-solving and overcoming barriers. I also find time to co-host a 10 Keys to Happier Living group, which involves a monthly meet-up of members within the community, where we look at a different theme of mental health and discuss how we can put them into action in everyday life.

EXPERIENCE

November 2020 – Present

Co-Founder/Engineer (Part time)

Lux Co Creative - Newquay

Established my own design & print studio, using my technical background to drive efficiency and growth, primarily in the B2B market.

- o Day-to-day management of business administration
- o Successfully taken the business through IPO's Trademark process
- o Managing customer, supplier, and provider relations
- o Seamless two-way integration with Amazon and Etsy APIs for the easy management of product pages and images
- o Automated processing of financial data, parsing and extracting data from PDF files and creating associated records in accounting software via Xero API
- o Integrated with the Royal Mail, Amazon Shipping, and Parcel2Go APIs for the batch creation of shipping labels and uploading of tracking data – using Fast API and SQL Model
- o Built automated asset creation tools with Adobe Photoshop/Illustrator using JavaScript
- o Automated product and seller review requests using AWS Lambda
- o Created designs using vector graphic applications

July 2012 – Present

Systems Analyst & Developer (Full Time)

Polgannel Solutions - Newquay

Responsible for the integration and management of 12 online sales platforms, covering 2.6 million SKUs.

- o Integrated with eCommerce APIs (Amazon, eBay, Etsy, Shopify) to maintain product listings, upload product imagery, and synchronise inventory availability/stock
- o Wrote an image creation toolset used to create over 180,000 images (rebuilt an initial version written in JavaScript for Adobe Photoshop, into a Python version using Pillow and TKinter)
- o Integration with QuickBooks Online, using C# and T-SQL to obtain data for processing in Python and Pandas, to later be uploaded via the QuickBooks API
- o Updating of stock item details and stock levels in bulk using C# and T-SQL
- o Wrote an automated stock ordering system using PHP, with Slack API for notifications
- o Created a product data creation wizard to generate inventory files in Excel via VBA
- o Utilised Pandas for the analysis of sales data to support business plans and decisions
- o Drove efficiencies in the production of order designs using Python with CorelDRAW.