DAVID WINCH

SYSTEMS ANALYST & DEVELOPER

PROFILE

A committed and confident Python developer, looking to further my skill set as a permanent part of a team working on innovative projects. I am quick to pick up new technologies and paradigms to solve problems.

While I am technically natured, working and volunteering with non-developers requires me to be able to communicate concepts in a non-technical manner.

I have a passion for the automation of tasks, extracting meaning and decisions from large data sets, augmented/virtual reality and computer vision. In my spare time, I use my skills to improve the immersion of my friends' Dungeons and Dragons sessions.

CONTACT

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📍 | Newquay, Cornwall, UK

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	Unity 2D & 3D
Pandas	C#
NumPy	Version Control (Git)
Matplotlib	Visual Basic
Jupyter Lab	T-SQL
Django	QuickBooks API
OpenCV	Online Marketplace APIs
Data Analysis	Slack Bot API
Pivot Tables	Vector Graphics

EXPERIENCE

July 2012 – Present

Systems Analyst & Developer

Polgannel Solutions Ltd - Newquay

Responsible for the creation and maintenance of 2.6 million clothing SKUs across 12 sales platforms.

o Wrote an image creation toolset used to create over 180,000 images (initially written in JavaScript for Adobe Photoshop, later remodelled in Python using PIL)
o Automated entry of sales data for QuickBooks Online, using C# and T-SQL to obtain data; Python and Pandas to send to the QuickBooks API
o Parsing of invoices using Python to extract data for entry into QuickBooks
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 and Slack API for notifications
o Created a user-friendly data creation model in Excel via VBA
o Integrated with Amazon, Shopify, Etsy, and eBay APIs to list products, update data, etc.
o Use of pivot tables in Pandas to analyse sales data and make business plans
o Daily order design processing via VBA, from Excel to CorelDRAW, saving five working hours per day

July 2016 – July 2018

Volunteer Mentor

Software Cornwall

o Mentor for Techademy; a workshop for teachers to encourage programming in the classroom using Raspberry Pi and embedded systems
o Mentor and guest judge for Mission to Mars; work experience for young people to learn embedded systems by creating a 'Mars rover' using Arduinos

June 2018 – Present

Volunteer Systems Analyst

St. Francis Dog's Home - Newquay

Recently became responsible for the introduction of new systems to bring the charity away from paper-based data models, focusing on:

o Integration and management of Analog database system
o Automation of workflows for dog submissions and requests, donations and '*thank you*' emails, volunteer applications, etc
o Creation of an online, monthly donation system, providing a constant revenue stream