



NICK THOMPSON

PROFILE

For many years I have worked as a Network Engineer working with a wide range of networking technologies, cyber security products, firewalls, Windows servers, Linux and recently cloud environments.

Over the past 2-3 years I have followed my long-term passion and focused my career on application development and becoming a software engineer. I am currently working mostly with Python, Django and SQL to deliver web applications but have experience with C# and .NET to deliver desktop and tablet applications.

I am passionate about all aspects of technology and have delivered an extensive range of commercial and private sector projects, as project lead and practitioner.

I am an enthusiastic, hard-working and proactive individual, who takes on each task with a positive attitude and can-do approach. I have excellent communication and interpersonal skills, working autonomously as well as in a team.

One of my biggest strengths is to interpret client requirements, engage stakeholders and explain technical issues in a clear concise way to achieve results quickly.

I have a passion for learning, and look for opportunities to further my personal development, both inside and outside of the workplace.

EXPERIENCE

Cleveland Fire Brigade **ICT Officer - 2016 – Present**

- Design and implement new and existing software solutions, API integration, web, desktop and tablet app development using Python, HTML, CSS, C# and .NET
- Contribute to code management, development, testing and implementation of software using Azure DevOps and GIT.
- Attend weekly Scrum and milestone meetings.
- Lead on and participate in code reviews where required.
- Data processing, transmission, storage and retrieval using Microsoft SQL server, SQLite, JSON and REST API's
- Deployment and maintenance of virtual server environments and cloud platforms including backups and storage using Hyper-V, Azure App Services, Azure Virtual servers and AWS EC2 instances.
- Provide 24x7 support and administration of the ICT infrastructure, critical systems, mobilisation, incident command and communications network.

RECENT PROJECTS:

Lead developer on a content management and intranet application using Python, Django and SQL to allow the Executive Leadership Team to dynamically create strategic content for the organisation. This project consumed a SharePoint REST API to allow documents to be stored and retrieved from Office 365 and is a gateway for other applications throughout the organisation.

Sole developer of the ICT department's password, inventory and service desk ticket system. Built using a fully custom UI and standalone backend with Python, Django and SQLite. The system is used as a management tool to log service requests, generate and fully encrypt server passwords and functions as the primary information source in and out of operational hours.

Performance web dashboard to monitor successful delivery of risk data to fire appliances. The dashboard uses Python to parse logs and check SQL replication status and delivers the results to a Django web app which uses Google's chart service to display information from various sources on one screen. Data is represented as a percentage graph along with any errors, custom icons to identify each state and time since last successful update.

More information on my past projects is available from my portfolio website www.ntsolutions.co.uk

CONTACT

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LANGUAGES & FRAMEWORKS

Python

Django / Flask

HTML / CSS / Bootstrap

C# / .NET / WPF / XAML

JSON / API / MVC

DATABASES

MSSQL / SQLite / AzureSQL

MySQL

DynamoDB (NoSQL)

DEVOPS & METHODOLOGY

Git / Version Control

Azure DevOps

CI/CD Pipelines

Agile / Scrum

NETWORKING & CLOUD

Amazon EC2

Amazon S3

Azure App Services

Azure VM / Hyper-V

Azure Blob Storage

Windows / Linux Servers

TCP/IP, Firewalls, DNS, HTTP

HOBBIES

I spend a lot of my free time learning new skills, reading books and watching tutorials. I have recently created my own games using the Unity game engine.

I like to play video games, tinker with electronics and build maker projects using Raspberry Pi's. I take an active interest in current and new technologies such as blockchain and crypto currencies.

Freelance ICT Engineer & Consultant

2003 - 2016

Consulting and implementing solutions for local small to medium businesses.

- Advising clients on the best way to improve their business processes.
- Providing help and advice on network security and hardware
- Expert support for business-critical systems,
- Upgrades and repairs
- Server installations, email, file storage and backup solutions.
- Firewalls, routing, LAN/WAN design, implementation and support

Labman Automation

Robotics Engineer - 2013 – 2015

Manufactures of bespoke robotic automation systems to a global client base.

- Design and maintenance of the corporate website (PHP/WordPress)
- Contributing to the maintenance of the company inventory systems
- Analytical reporting and documentation using the ISO 9001 framework.
- Implementation of C++/C# code into core robot OS functionality
- Assembly of robotic components, microelectronics, software development and implementation
- Design and production of video and graphics for sales material

Fairfield Industries

IT Administrator - 2003 - 2004

Primary IT support and website designer for the auction company. Online auction site development and stock list maintenance. Physical set up of IT/AV equipment for outcry auctions throughout the UK and Europe.

Gamestation

Sales Assistant - 2002 - 2003

Duties included assisting customers with purchases and recommendations. Point of Sale, handling transactions and stock taking.

Network Solutions (UK) Ltd

IT Technician - 2000 - 2002

A complete service provider for networks, security and internet solutions. Key responsibility for the maintenance and installation of network hardware, TCP/IP Networking & Data Cabling, Windows desktop and server support.

EDUCATION & CERTIFICATION

Nunthorpe School

GCSE 1995 – 2000

LFS101X INTRODUCTION TO LINUX

100% passing grade - 2014

CURRENT STUDY AND AREAS OF INTEREST:

AWS Certified Developer

Web Programming

App Development

REFERENCES

Available upon request