

## Samuel Denton

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As a graduate of Bournemouth University with a strong foundation in technology, I have harnessed my passion for emerging trends to establish several personal projects, including a part-time trading business, taking commissions for 3D printed items and a Progressive Web App that acts as my personal repository for projects and information. These ventures have granted me invaluable insights into the operation of modern technologies and the cultivation of an expansive and ever-evolving skillset. I pride myself on my continual exploration of contemporary tech advancements, most notably, Artificial Intelligence and Progressive Web Applications (PWAs).

My experience as a .NET developer has afforded me a solid understanding of this versatile framework, honing my proficiency in coding, debugging, and the lifecycle of software development. Moreover, my hands-on experience with AI tools and the creation of a PWA underlines my drive to discover and learn the latest technologies in practical applications. I have little reproach attacking a new project head on without extensive starting knowledge and expect to pick up what I need as I go.

In addition to my technical knowledge, I maintain robust teamwork skills, cultivated through a diverse range of experiences from software support roles to bartending, and further demonstrated by achievements such as the completion of the Ten Tors challenge. I thrive in collaborative environments and have the capacity to assume leadership roles when necessary.

Being an ardent learner, I possess the aptitude to quickly acquire and effectively apply new skills, particularly in the realm of technology and sciences. I am eager to leverage these attributes and my cutting-edge skills to contribute to a dynamic team and look forward to continually expanding my technical knowledge in the ever-evolving landscape of technology.

## Education

2016 – 2019

Bournemouth University

Degree title: BSc Cyber Security & Computer Forensics  
Dissertation title: A comparison of neural network-based network IDS techniques for achieving interpretability.  
Degree Classification: 2:1

Modules studied include Machine Intelligence (AI) for Business Decision Making, Business and Professional Issues, Application Programming, Relational Databases, Systems Analysis and Design, User-centred Web Development, Digital Forensics and Ethical Hacking and Countermeasures

2008 – 2016

Newton Abbot College

A Levels: ICT BTech  
Maths  
Physics

GCSEs: 11 GCSE's A\*-C Including Maths and English

## Technical Skills

Aided by my broad computer science degree at Bournemouth University, I have amassed a robust foundation in both theoretical and practical aspects of technology. This includes proficiency in a variety of programming and scripting languages, system penetration testing, technical analysis of system data, understanding of encryption and decryption methodologies, genetic algorithm programming, neural networks, and Database Management Systems (DBMS).

A focal point of my studies, both at university and independently, has been Artificial Intelligence (AI), Machine Learning, and Neural Networks. My dissertation and additional studies have cultivated a deep understanding of these subjects, enabling me to code basic yet effective implementations in real world products.

My technical skills extend beyond my formal education, thanks to my continual dedication to self-learning. My curiosity propels me to explore a range of subjects, from quantum mechanics to molecular biology, with an emphasis on understanding how AI can potentially revolutionize these fields. I might spend 2-3 hours per day engaged in extracurricular activity, whether that be watching documentaries, completing online courses, completing tutorials, or working on my own projects; working with both hardware and software.

I have undertaken various personal projects to put theoretical knowledge into practice. These include:

- My personal website and an associated Progressive Web Application (PWA), developed to enhance my understanding of back-end technologies.
- A personalized GPT-4 based Chatbot, capable of navigating my website, extracting pertinent information, and presenting it to the user.
- A cryptocurrency trading algorithm, primarily designed for personal learning around APIs.
- A project aimed at enhancing the resolution of my 3D printer, reinforcing my skills in troubleshooting and hardware modification.

In my previous role, I have been encouraged to engage in a few projects, and lead some of my own. Some of these projects were suggested by the company, and some I developed to improve my own workflow:

- As a team, we have developed a robust reporting/graphing/analysis system for our clients' trading data, utilising .NET Blazor Server to create SPA's
- I have built myself, an application to function as our company Wiki, since TeamViewer has deprecated theirs. This was built from scratch using .NET Blazor WebAssembly. It uses GitHub's REST API, making use of a repo as my database. I have implemented Azure Active Directory based authentication using MSAL, tied to our company tenant. It makes use of Fluxor for state management and persistence and uses extensive Service-Workers to cache the app for offline use. It includes SHA matching to keep clients up to date with the database.
- I built a tool that takes clients transaction data and display it in any graph type, pull relevant data and summarise trends. I made use of a few different End-Points from OpenAI, including their Completions End-Point for Davinci, and their Chat End-Point for GPT-4.
- I have built a tool using MSHTA that manages VM usage and allows quick connections to our VM's. It included an intuitive UI and alerts if your actions would affect other users.

- I built a .NET application for file management since our company directories were very spread out. However, the updates to Windows File Explorer made this obsolete.

My tech stack in descending experience includes:

- PWAs / Blazor / Web Assembly
- JavaScript / HTML / CSS / PHP / MSHTA / Web APIs
- .NET / C#
- REST APIs
- SQL
- Hardware Programming
- Python, Java, C++, Android Development

Outside of software, my experience at a bike shop has afforded me a working knowledge of mechanical engineering principles, including gear ratios and manufacturing techniques, and an understanding of electrical motors and battery systems. I am adept at leveraging this understanding in problem-solving, adding another layer of depth to my technical repertoire.

## Interests and Additional Information

- In my spare time I enjoy climbing, mountain biking and learning about whatever interests me by watching documentaries and educational videos.
- I have a passion for wildlife and nature and spend time gardening and walking my dogs. I currently care for over 40 species of house plant, mostly cacti, and grow a variety of crops!
- I have a keen interest in renewable technology and am determined to be personally carbon neutral.
- While at University I was on the committee of the Climbing Society, Mountain Biking Society and was treasurer for the Crypto-Currency society.
- I have completed the Ten Tors challenge 3 times of which I was team leader for one event which has enhanced my leadership skills.
- In July 2016 I went to live in the jungles of Borneo for a month, self-funded, to assist with conservation and community work with Camps International. I found the experience invaluable in broadening my capacity for empathy and understanding of cultures.
- I have begun a free solo sky diving course which I may complete in the next few years. I am also a qualified paddy deep-water scuba diver.
- I have a full UK drivers' licence and a car so can travel.
- I have great interest in learning new languages, and currently speak very basic Japanese, French, and have basic grammar in German, Spanish and Latin.
- I have great interest in current social and climate issues and consider myself a keen environmentalist.

## Work Experience

March 2021 to Present

Kudos Software LTD

AI Development and Integration / Software Support

- Split between; development of internal apps, such as a Wiki, a file manager and a VM access manager; and talking to clients about support requests.
- Currently building an AI assistant for our customers to enable them to generate custom reports based on their sales data.
- Mostly focused on .NET and Blazor development.
- I'm required to have a good knowledge of SQL to interact with customer data

March 2019 to February 2022

Partridge Cycles

Technician / Sales Assistant

- Responsible for looking after customers and giving advice on the best purchases, as well as maintaining stock, manning the till and performing basic maintenance work.

July 2016 - September 2018

The Headland Hotel

Bar Tender / Waiter

- Responsible for looking after the bar and lounge area and providing food and beverages.
- When needed, also responsible for filling in for other roles, including; waiter, porter, receptionist, IT repairs, restocking, maintenance, housekeeping and sous chef

Summer 2015

Bishop Fleming LLP

IT Internship

- Completed a 7-week internship with Bishop Fleming working within their IT department.
- Responsible for answering and responding to 1<sup>st</sup> line IT Support queries from users.

March 2015 – July 2016

Trago Mills

Cashier

- Responsible for stocking shelves, looking after customers, and helping with checkout.

Summer 2014

Teignbridge District Council

IT Department

- Completed School Work Experience within the IT Department of Teignbridge District Council. Helped to develop communication and interpersonal skills.