

# Adam Wilson

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## PROFILE

Self-motivated with a passion for learning new technologies. Hands-on experience in **full life cycle management delivery and implementation** under tight deadlines. Proven ability to translate customer business requirements into technical designs and communicate them effectively to peers and management. Experienced in Agile teams, enthusiastic about sharing knowledge, and confident in providing technical training across all levels. Initiated and founded the **AI** projects that evolved into company departments. Adaptable to new situations, always seeking opportunities to face new challenges and enhance skill sets.

## KEY SKILLS

- |                          |                        |                 |
|--------------------------|------------------------|-----------------|
| ▪ Autogen                | ▪ Programming          | ▪ CI/CD         |
| ▪ Web Design (HTML, CSS) | ▪ Semantic Kernel      | ▪ AI            |
| ▪ Automation Development | ▪ Training/Coaching    | ▪ Terraform     |
| ▪ Cloud Networking       | ▪ Python               | ▪ Docker        |
| ▪ MySQL                  | ▪ Agile Working        | ▪ DevOps        |
| ▪ Microsoft Azure Cloud  | ▪ Database Development | ▪ Network Cloud |
| ▪ Azure OpenAI           | ▪ Flask                | ▪ Mentoring     |

## EMPLOYMENT

### AI and Data Technical Lead

#### Mouser Electronics, EPM | April 2021 – Present:

- **AI Platform Team Leadership:**
  - Led the development of an AI platform and managed the technical direction of the AI team. Architected a scalable AI core using semantic kernel that enables growth. Created the terraform repos that deploy the infrastructure
- **Semantic Kernel Core Development:**
  - Designed and implemented a Semantic Kernel core, providing users with an endpoint that dynamically determines the best course of action using available plugins. Established development policies for future plugins, and built GitLab pipelines that handle build, scan, and deployment processes for Azure Function Apps.
- **AI Chatbot Development:**
  - Developed an AI chatbot leveraging the Semantic Kernel to facilitate end-to-end conversations with users, helping them find the right products based on their needs. Which will be going live in December 2024
- **AI Translation Tool:**
  - Created an AI-powered translation tool that reduced annual translation costs from \$1.5 million. This tool scans website updates, translates content into five languages, and sends it for in-house review before publishing it on the website.
- **Document Intelligence for Sales Automation:**

- Developed an image scanning tool that automates the process of reading and entering sales forms, previously performed manually, using document intelligence to streamline data entry.
- **Developers helping hand:**
  - Using Autogen we created a application that is named Developers helping hand that is linked to GitLab. This allows developers to program in natural language

## **Senior DevOps/Automation Engineer**

### **Mouser Electronics, EPM | August 2021 – April 2023**

- **ITSM Automation:**
  - Designed and implemented automation workflows for the ITSM system, streamlining processes such as new user account creation in Active Directory and automatic equipment orders. Integrated paging duty alerts to notify teams of critical tickets.
- **Key Migration Project:**
  - Led the migration of security keys from KeyPass to Centrify, ensuring secure and efficient key management across the organization.
- **Anomaly Detection & Monitoring:**
  - Developed an anomaly detection tool using Prometheus to monitor server health. Replaced email flood notifications with a streamlined system that only triggered alerts for anomalies, improving response time and reducing noise.
- **"MUBI" System Development:**
  - Created the "MUBI" automation system for maintaining base images like Python and Java within Red Hat OpenShift. The system pulled the latest releases, performed containerized builds, ran security scans, and updated the base image repository upon passing scans. Unsafe images were destroyed automatically, ensuring a secure and up-to-date image repository

## **Automation Software Engineer**

### **System Interface, British Telecom | April 2021 – August 2022**

- **Operation Galaxy - Huawei Equipment Removal:**
  - Contributed to "Operation Galaxy," a critical project aimed at removing Huawei equipment from the network. Ensured that all container images containing necessary software were uploaded in accordance with CI/CD policies, facilitating smooth software updates and deployments.
- **Network Anomaly Detection Tool:**
  - Developed a network anomaly detection tool to address discrepancies in traffic and failure reporting during public holidays. The tool ensured that alerts during peak traffic periods were accurate, improving network reliability and reducing false alarms.

## **Infrastructure Engineer Apprentice**

### **British Telecom | September 2019 – April 2021**

- Designed and maintained in-house monitoring tools for customer networks.
- Developed a machine learning anomaly detection tool for network monitoring and auto troubleshooting.
- Worked on national security projects with government services.

## **Founder & Website Designer**

### **Self-Employed | May 2017 – August 2019**

- Founded a website company called AW Website Designs to experience the challenges of growing a business to find the struggles and pains with growing a business while at the same time having to stay technical. I learnt how to talk at a high level as well as a low level to communicate

### **Awards**

- Employee of the Year at mouser:
  - I was awarded by the CEO of mouser electronics the employee of the year for my work in starting and leading the AI team
- BT Apprentice of the year:
  - Out of 300 apprentices all studying around the UK at BT whilst attending Bristol university for my work at university. Being the BT Apprentice ambassador, and leading the ML anomaly detection tool I was awarded apprentice of the year.

### **Leadership, Mentorship and personal interests**

Within BT I was lucky enough to be selected to be the Head of Attraction ambassador for BT Bristol. This involves promoting and interviewing potential new apprentices, and graduates to BT.

Outside of BT I also do **python** tutoring, this allows me to reinforce my knowledge along with passing it on to other inspiring programmers.

In sports I like to try anything with my friends, we have a good competitive spirit, however I am a keen mountain biker attending races around the UK. I also play rugby playing as number 10

### **Key Certifications**

3 A Levels: Engineering, Physics and computer science

BT Apprentice while studying at the University of Bristol

- 2020 - Microsoft Technology Associate Cloud Fundamentals
- 2020 - BSC Level 3 Coding and Logic
- 2020 - Microsoft Technology Associate Networking Fundamentals
- 2020 - Microsoft Technology Associate Device Fundamentals
- 2020 - Microsoft Technology Associate Networking Materials