

# Wiktor Kaczor

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**Website:** <https://wiktorkaczor.com>

Based in The City of Edinburgh, Scotland

## Education

### Undergraduate Study at Napier University (2019 to present):

- BEng (Hons) Cybersecurity and Forensics with 3<sup>rd</sup> Year Entry [2019 to present]

### Higher Education at Edinburgh College (2016 to 2019):

- Higher National Diploma Computing: Networking - Grade A (SQCF Level 8) [2017 to 2019]
- National Certificate Computing: Technical Support - (SQCF Level 6) [2016 to 2017]

### Additional Certifications:

- MTA (Microsoft Technology Associate): Windows Operating System Fundamentals [Certified 2017]  
<https://www.youracclaim.com/badges/754731c9-fdf1-461a-b0e5-b658b1839778>

### Secondary Education at Holy Rood RC High School (2012 to 2016):

- Computing Science – Grade B [National 5]
- Physics - Grade B [National 5]
- English` - Grade B [National 5]
- Italian – Grade B [National 5]
- Media – Grade B [National 5]
- Business Management – Grade C [National 5]
- Graphic Communication – Grade C [National 5]

## Work Experience

### Glass collector

- Fergie's Bar in Bathgate, United Kingdom
- August 2016 to May 2017

### Responsibilities:

- Restocking the fridges after sales and during deliveries
- Cleaning the pub floor and tables
- Collecting and washing glasses

- Answering customer queries

## References

- Maciej Zmijewski (Fergie's Bar) - 07783937824

## Projects

### Neural Network from Scratch using Python

A multi-layer perceptron artificial neural network implementation in Python from scratch:

- Object-oriented programming model
- Extensible design for activation functions with multiple already provided
- Model saving and loading capabilities
- Numba JIT compiler usage for performance optimisation
- OpenCV for retrieving camera data
- Xavier weight initialisation function
- Gradient descent with momentum implementation
- Abstraction with wrapper functions

### Network Packet Capture Analysis using Python

A python script to analyse a network packet capture:

- The "dpkt" library to parse network packet data
- JSON configuration files for initial program configuration
- Querying for geodata based on IP addresses
- Network data visualisation using Matplotlib and NetworkX
- Regex to filter out relevant data
- Creation of a KML file using the geodata
- Packet type, length and count analysis
- Visualisation of the program structure using Pyan

### Rota and Holiday Scheduling Web Application using NodeJS (Group Project)

A web application for SMEs to manage their shift and holiday assignments using NodeJS containing:

- Employee rota or holiday request and assignment functionality

- SQLite database to store employee account data
- Separate dashboard for employees and administrators
- Visualisation of employee timetable using a Gantt chart
- Bcrypt for hashing and salting passwords
- HTTPS for data entry encryption
- Role-Based Access Control
- Form input sanitisation
- Data API for schedule retrieval
- Alerts system