**Wiktor Kaczor**

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**Home Address:**

5 Niddrie Marischal Crescent

Edinburgh

EH16 4LB

**Education**

**Undergraduate Study at Edinburgh Napier University (2019 to 2021):**

* BEng (Hons) Cybersecurity and Forensics (3rd Year Entry) with First Class Honours [2019 to 2021]

**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**

**Student**

* Edinburgh Napier University, United Kingdom
* August 2019 to June 2021

**Responsibilities:**

* Developing a dissertation project using existing photogrammetry solutions for image tracking purposes
* Analysing existing source code for vulnerabilities using secure software development practices
* Collaborating with a team on web technologies group project
* Analysing file and operating system artifacts for forensic evidence
* Python scripting for network analysis
* Basic network server penetration testing
* Executing and protecting against attacks in an IoT network simulator

**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**

* Dr Sean McKeown (Edinburgh Napier University) - S.McKeown@napier.ac.uk
* 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
* OpenCV for retrieving camera data
* Xavier weight initialisation function
* Gradient descent 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