

# Shaffan Aleem

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## EDUCATION

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**University of Liverpool | Liverpool, UK**

Expected Graduation June 2027

BSc (Honors) - Computer Science with Software Development

**Coursework:** Data Structures & Algorithms, Database Development, Calculus, Computer Networks, Computer Systems, Cybersecurity, Discrete Mathematics, Intro to Artificial Intelligence, Intro to Data Science, Linear Algebra, Object Oriented Programming (Java), Principles of C & Memory Management, Programming Paradigms (Haskell), Software Engineering

## SKILLS & TECHNICAL TOOLS

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**Languages:** Go, Java, Python, MySQL, JavaScript, HTML/CSS

**Technologies:** Git, Jupyter Notebook, Flask, Nmap, Metasploit, NumPy, Pandas

## EXPERIENCE

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**Clinical Assistant | InHealth Group**

*April 2023 - Oct 2023*

- Managed patients' journey from arrival to departure, ensuring a smooth and positive diagnostic experience.
- Escorted patients to and from the clinical area, explaining procedures and addressing concerns.
- Completed pre-scan data protection/consent forms and health and safety questionnaires.
- Assessed and monitored patients' conditions post-procedure, promptly reporting any changes to relevant staff.
- Maintained a patient and customer-focused approach to enhance the success of the Ultrasound department.
- Accurately entered patient data into the management system, ensuring data integrity.
- Applied understanding of health and safety and infection control principles.
- Worked independently and with a multi-skilled team, adapting to flexible schedules to meet site needs.
- Exhibited excellent written and verbal communication skills, presenting information logically and efficiently.

## PROJECTS

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**GoSearch | Go, Goroutines, HTTP Client, Cryptography, Yaml**

- Developed an OSINT tool in Go for searching usernames across various social networks specified in a config.yaml file.
- Utilised Goroutines to optimise and accelerate username searches across many social networks.
- Implemented TLS configuration to bypass firewalls and securely search for usernames on selected social networks.
- Configured cookie management to bypass firewalls and enable successful username searches on targeted social networks.
- Built an HTTP client to prevent redirects on specific websites, ensuring a 200 status code was only returned with valid username results.
- Wrote functions to analyse response bodies and detect valid usernames on sites that return 200 status codes for both valid and invalid usernames.

**Credit Card Validation Web Server | Go, HTTP Client, JSON**

- Developed a web server in Go for validating credit card numbers using Luhn's algorithm.
- Implemented a RESTful API to accept JSON-formatted requests containing credit card numbers for validation.
- Configured the server to run on a customisable port for flexibility in deployment.
- Wrote a custom function that implements Luhn's algorithm.

**Snapscore Tracker | Python, NumPy, Pandas**

- Developed a Python tool to track and analyse Snapchat scores, enhancing data insights for users.
- Implemented timestamp logging to ensure accurate Snapscore tracking during daylight savings.
- Used Pandas to analyse CSV data, calculating metrics like snap rate per minute, hour, and day, and handling time-based comparisons and increases.
- Implemented timestamp logging to ensure accurate Snapscore tracking during daylight savings.
- Used NumPy to fill missing values (NaN), ensuring accurate Snapscore history tracking.