

Shaffan Aleem

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EDUCATION

University of Liverpool | Liverpool, UK

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

Languages: Typescript, Javascript, Go, Java, Python, HTML/CSS

Technologies: Git, NextJS, React, PostgreSQL, Redis, Supabase, MongoDB, AWS, NumPy, Pandas

EXPERIENCE

IT Technician | Diagnostic World

February 2025 - Present

- Managed Jira tickets, assisting employees with missing reports, login resets, NHS email creation/deletion, and general IT support.
- Managed the company's PostgreSQL database on AWS, ensuring performance, security, and availability.
- Managed the company's Picture Archiving and Communication System (PACS) on AWS.
- Managed multiple employee devices using VSAx and KaseyaOne, including remote troubleshooting, security updates, and system maintenance.
- Created and managed NHS emails and shared mailboxes in Microsoft Outlook.
- Created and managed SharePoint sites, organising documents and enhancing team collaboration.
- Rewrote the company's AMP system in NextJS for real-time rendering and enhanced UI.

PROJECTS

GoSearch | Go, Goroutines, HTTP Client, Cryptography, JSON

- Developed an OSINT tool in Go for searching usernames across various social networks specified in a data.json 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.

AMP | NextJS, React, shadcn

- Redesigned the front-end for DiagnosticWorld's AMP system, managing patient referrals, report publishing, clinic operations, and support services.
- Leveraged previous developer's APIs to develop a modern, sleek UI with improved performance and faster rendering than the previous front-end.
- Used shadcn/ui to implement modern React components.
- Developed a login feature to validate authentication and session details.
- Implemented Next.js routing with authentication, utilising JWT signing for cookie management.
- Created an admin portal for managing users, including features for metadata management, role assignment, and access control, allowing for seamless updates to user details.