Nick Ruffles

github.com/TheDarthMole 😭 app.hackthebox.com/users/73260 👂 Sheffield, United Kingdom

Professional Experience

08/2022 – present	Cloud Native Software Engineer, <i>Engineer Better ∂</i>
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London Migrating existing applications into robust and scalable solutions hosted on the

cloud utilising best practices and CI/CD pipelines. I also contributed to open source

projects such as External Secrets Manager (ESO) ∂

08/2021 - 09/2021 **Software Developer,** University of Sheffield

Sheffield Developed a post-graduate research system for the Department of Engineering that

> has been **deployed within the university**. Assumed the role of lead backend engineer and security for a team of 5. I achieved a secure implementation of a

production environment with continuous integrations, SSL and 2FA.

07/2016 **Software Developer work experience,** *Brittish Telecom (BT)*

BT Adastral Park, Assisted a **team** of software developers to complete an **Internet of Things** Smart Suffolk Home software product for clients, attended and presented at weekly meetings.

07/2015 **Shadowing software engineer,** *Brittish Telecom (BT)*

BT Adastral Park, A 2-week work placement working with **IoT devices** while shadowing a software Suffolk

engineer. Designed and implemented a beautiful front-end website, later

demonstrated during team meetings.

Extracurricular

04/2020 - 05/2022

University of Sheffield

President of Sheffield Ethical Student Hackers Society, *University of Sheffield*

- **President** April 2020 May 2021
- Vice-President May 2021 May 2022

A strong leader of a successful society for two years, with over 70 members. I taught basic and advanced penetration testing techniques and methodologies in weekly sessions, while also promoting cyber security.

As president, I delegated tasks, scheduled and organised sessions while also presenting them to members. Collaborated with Industry Leaders and other societies.

2019 - 2022

ShefJam7 and 8, Game Hackathon at University of Sheffield

University of Sheffield Attended two ShefJam hackathons aiming to build a game in 48 hours. The first

year my team and I built a game using PyGame and the second year I learnt C# in

Unity for a racing game on a Mobius strip.

Projects

Home Lab Server, A secure multi-purpose application stack

Created and managed a lightweight, fully containerised and load-balanced server with networking and IP rules, full end-to-end SSL encryption and DNS resolving. There are currently 16 services in the application stack, all with aggregated metrics for analysis and visualisation. The next evolution of the server is implementing k3s Kubernetes and buying a dedicated pfSense firewall and router.

PwnAdventure3 Game Hack, A challenge by Ghost in the Shellcode 2015 (GitHub) *⊗*

PwnAdventure3 is a game that was made for a Capture the Flag event, where the objective was to **create game** hacks in order to allow you to progress. The hack included modified speed, flying capabilities, infinite ammo and teleportation. It was made by patching assembly instructions using the C++ programming language and injecting the new instructions into the game via DLL injection.

Bookmarks Manager, Manage your bookmarks with tags (GitHub) ∂

Built with Sinatra for Ruby, the bookmarks manager allows sorting, filtering and tagging of bookmarks. It is accessible through a web interface making use of **Bootstrap 4**. Made in order to **learn Ruby**.

Education

2019 - 2022 **Software Engineering BEng,** *University of Sheffield*

Sheffield. A First-Class level student.

United Kingdom Relevant modules include Machines and Intelligence, The Intelligent Web,

> Software Reengineering, Automata Computation and Complexity, Systems Design and Security, Algorithms and Data Structures, Security and Forensics and Data-

Driven Computing.

Engineering you're hired (EYH) - An Engineering department project

Engineering Department project working in teams comprised of students from different disciplines, to **produce a solution** to a taxi problem in Cape Town. Our solution was financially viable and was **presented** to **industry experts** at Dyson.

2017 - 2019 A Level, Farlingaye High School

Computer Science: B Suffolk, Mathematics: B **United Kingdom**

Business: Distinction

Skills

BOSH / Cloud Foundry AWS / GCP

Deployed multiple apps using Terraform. Working **Kubernetes**

towards AWS Certified Practitioner Working towards the CKA certificate

Terraform Linux, Bash and Git

Docker Daily drive an Arch Linux Laptop

Agile methodology **SCRUM methodology**

Programming Languages Networking

Working towards the CCNA - Python, Django - Ruby - SOL

- Ruby on Rails, Sinatra - Golang - Javas - Assembly

LaTeX

- C/C++

Interests

HackTheBox & TryHackMe

- Javascript, NodeJS

I use HackTheBox and TryHackMe to learn new hacking techniques and brush up on existing skills.

Sports

I'm interested in Sailing (Completed RYA Sailing certificate) and Climbing.