ETHAN SMITH

✉ ethan.a.smith@hotmail.co.uk 📞 +44 7470 156296 in linkedin.com/in/eethansmith �
https://github.com/eethansmith

EXPERIENCE

AI Development and Deployment
QinetiQ

👤 Internship
📅 Jul 2024 – Sep 2024

– Developed and integrated AI capabilities into a cyber threat intelligence platform, enhancing user interaction with data at scale and improving analysis efficiency for Security Operations.
– Contributed in the development of an AI conversational model tailored for high-security environments. Communicating with structured and unstructured data, required generative queries, embedding models, and BM25 search.

Cloud Solution Architect
Microsoft

👤 Internship
📅 Jul 2023 – Aug 2023

– Proposed architectural redesigns for multiple customers, contributing to Azure Security Architecture Assessments.
– Collaborated closely with security researchers on the development of Security Co-Pilot, gaining deep insights into AI/ML functionality in security contexts.
– Developed expertise in Kusto Query Language (KQL), mastering cloud querying fundamentals.
– Earned the Microsoft Certified: Security, Compliance, and Identity Fundamentals certification.

Full-Stack Web Developer
Capital One

👤 Sponsored
📅 Oct 2022 – Jun 2023

– Designed, developed, and implemented a budget visualisation tool for project sponsor, Capital One. Web based UI front-end in React JS.
– AWS hosted cloud environment populated with synthetic customer data on a Node JS back-end, replicating functionality in place at Capital One.
– Instituted a comprehensive testing framework using Jest, enhancing software reliability. Produced a detailed project proposal documenting the process of the development from beginning to end product demonstration.

Security Software Engineer
BT

👤 Internship
📅 Jun 2022 – Aug 2022

– Lead the development and deployment of a Rust-deployed Border Gateway Protocol (BGP) route reader tool.
– Produced a functioning API for the rapid reader allowing data analysts within the team to provide functionality to the routing.
– Implemented my own Packet Visualisation tool that utilised the developed Rapid Reader API to give a visual representation of incoming threats to Critical National Infrastructure.

CyberFirst Summer Courses
National Cyber Security Centre

👤 Experience
📅 Aug 2017 – Jul 2019

– Engaged in a series of specialised cybersecurity courses facilitated by the National Cyber Security Centre (NCSC) over three consecutive summers.
– Gained invaluable hands-on experience with technical labs, lectures by leading industry professionals, enhancing my skills in both hardware and software security.

EDUCATION

BSc, Computer Science
University of Nottingham

🎓 Final Year
📅 Sep 2021 – Present

Foundation, Computer Science
Loughborough University

🎓 Achieved
📅 Sep 2020 – July 2021

Extended Diploma in Computer Science
West Herts College | Watford, Hertfordshire

🎓 D*D*D
📅 Sep 2018 – Jul 2020

GSCEs
Parmiter's School | Watford, Hertfordshire

🎓 9 GCSEs
📅 Sep 2013 – Jul 2018

SUMMARY

I am final year Computer Science student seeking a graduate role to begin 2025. My academic and professional journey is marked by 3 internships, where I not only developed professional etiquette, but honed my interests for producing high-impact solutions that leverage efficiency and innovation. My interest in Artificial Intelligence began during Machine Learning modules at university, further solidified during hands on demonstration with Security Co-Pilot at Microsoft. Finally deploying and innovating AI models for Security and Defence with QinetiQ.

TECHNICAL PROFICIENCIES

Python	●●●●●
JavaScript	●●●●●
HTML/CSS	●●●●●
C	●●●●○
Rust	●●●●○
Cloud Deployment	●●●●○
SQL	●●●●○
KQL	●●●●○
C++	●●●●○
Java	●●●○○
Haskell	●●●○○
GoLang	●●●○○

DEVELOPMENT PROJECTS

Telegram Auto-Trader
Commissioned

📅 Jun 2024

– Customer commissioned Telegram scraper in which placed automatic trades on behalf of the user.

Pymetheus - AI Python Solver
Personal

📅 Mar 2024

– Produced GPT Wrapper mobile app to solve Python programming problems.

Investment Portfolio Website
Personal

📅 Nov 2023

– Developed front and back-end Java Script for web app, visualising personal stock portfolio.

AWARDS/BURSARIES

SC900 Certified
Microsoft

📅 Aug 2023

SC Cleared
National Cyber Security Centre

📅 Sept 2021

CyberFirst Bursary
National Cyber Security Centre

📅 Aug 2021