

# Rafferty Simms

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I'm an award-winning Computer Systems (Cyber Security) undergraduate; currently completing an industrial placement at Mercedes AMG High Performance Powertrains. I have a passion for all things computing, with a career interest in IT, Cyber Security, and Software Engineering.

## Experience

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- **Information Technology Placement** (*Aug 2023 – Present*)  
Mercedes AMG High Performance Powertrains

## Education

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- **Bachelor of Science (Hons) – Computer Systems (Cyber Security)** (*Sep 2021 – Jun 2025*)  
Nottingham Trent University  
Grade Predicted: **First-class**
- **BTEC Level 3 National Extended Diploma – Computing and Cyber Security** (*Sep 2019 – Jun 2021*)  
Derby College  
Grade Achieved: **D\*D\*D** (Distinction\*, Distinction\*, Distinction)

## Certifications

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- **ISC2: Certified in Cyber Security (CC)** (*Jul 2023*)
- **Microsoft: Security, Compliance, and Identity Fundamentals** (*Jun 2023*)

## Awards

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- **Department of Computer Science Prize for Outstanding Performance** (*Sep 2023*)  
*Awarded for Outstanding Performance in Year Two of BSc (Hons) Computer Systems (Cyber Security)*
- **Ryland Consulting & Department of Computer Science Prize for Exceptional Performance** (*Sep 2022*)  
*Awarded for "Best Progress" in Year One of BSc (Hons) Computer Systems (Cyber Security)*
- **University Language Programme Certificate of Achievement** (*Jun 2023*)  
*Awarded for achieving a Distinction grade in University Language Programme: Chinese (Mandarin) Stage 1*

## Relevant Skills

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- Programming using the Python, JavaScript, Java, and C++ languages; amongst others – with knowledge of the Software Development Life Cycle, Agile methodologies, and CI/CD processes.
- System Management in Windows and Linux-based environments. Including the use of Active Directory Domain Services, Azure, Docker, and Amazon Web Services (S3, IAM, and CloudFront).
- Integration and use of Database Technologies and Database Management Systems (Relational; MySQL, SQLite, Document-based; MongoDB).

## Project Examples

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- **File Sharing System:** A self-hostable file sharing system that accepts file upload requests and returns a shareable link pointing to the uploaded file, making use of the Open Graph Protocol to enable rich object support.  
*Technologies: JavaScript (NodeJS), HTML, Source: <https://github.com/fwiko/sharex-server>*
- **Distributed Load-Balancer:** A load-balancing system created for my "Distributed Network Architectures and Operating Systems" university module – after an investigation into High Performance/Distributed Computing.  
*Technologies: Java, Source: Available upon request.*
- **Remote Keylogger:** A keylogger project created with a "server" application capable of accepting connections and handling data sent from multiple remote nodes simultaneously.  
*Technologies: Python, Sockets, Source: <https://github.com/fwiko/bind-keylogger>*