# **Rafferty Simms**

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## Education

• Bachelor of Science (Hons) – Computer Systems (Cyber Security) (Sep 2021 – Jun 2025)

**Nottingham Trent University** 

Grade Predicted: First-class (85% average)

• BTEC Level 3 National Extended Diploma – Computing and Cyber Security (Sep 2019 – Jun 2021)

**Derby College** 

Grade Achieved: **D\*D\*D** (Distinction\*, Distinction\*, Distinction)

## Work Experience

• Information Technology Placement (Aug 2023 – Present)

Mercedes AMG High Performance Powertrains

I work in various capacities within the I.T. department; ensuring operational continuity throughout the business, remediating security vulnerabilities, and developing systems to monitor and maintain resource availability.

### Certifications

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

#### **Awards**

- 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 One

#### Technical Skills

- 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).

## **Projects**

- **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: 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 on 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: github.com/fwiko/bind-keylogger