Rafferty Simms

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[Phone Number available on request]

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.

Education

- **Bachelor of Science (Hons) – Computer Systems (Cyber Security)** (Sep 2021 – Jun 2025)
  Nottingham Trent University
  Grade Predicted: **First-Class Honours** (85% running average)
- **BTEC Level 3 National Extended Diploma – Computing** (Sep 2019 – Jun 2021)
  Derby College
  Grade Achieved: **D*D*D** (Distinction*, Distinction*, Distinction)

Certifications

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

Courses

- **University Language Programme – Chinese (Mandarin): Stage 1** (Sep 2022 – Jun 2023)
  Grade Achieved: Distinction

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)

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, Microsoft SQL, 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**
- **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**
- **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.**