

## Calvin Smith

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Passionate and dedicated Digital & IT Graduate Trainee at Cathay Pacific Airways, with a strong focus on cybersecurity; recent MSc Information Technology graduate from the Hong Kong University of Science and Technology. Actively engaged in hacking challenges and author of a blog on security and IT topics. Enthusiastic about collaborating with others and solving complex puzzles and problems. I am eager to bring my analytical skills and tenacity to challenging new IT environments.

### **Education:**

**Hong Kong University of Science and Technology** – MSc Information Technology; CGPA 3.54 2024-2025

- Notable Subjects: Independent Project on cryptographically secure financial data analysis (Python and Rust, in collaboration with HSBC), Principles of Cybersecurity, Engineering Reliable Software Systems (Java)

**King's College London** – BSc Hons Computer Science, First Class Honours 2021-2024

- Notable Subjects: Dissertation on designing a machine learning methodology to detect and explain network attacks (PySpark, SHAP; 90th+ percentile score), Web Security Testing (Graduate Level; top score in the cohort), Security Engineering (C language, Graduate Level; 90th+ percentile score)

### **Experience:**

**Digital & IT Graduate Trainee, Cathay Pacific Airways (Hong Kong)** Since 08/2025

- Security Assessments & Risk Management (6 months): performed threat modelling for enterprise applications; performed root cause analysis on 400+ IT risks and synthesised into a comprehensive report for management; presented on top emerging IT risks to 200+ employees.
- Big Data Platform: DevOps, AWS platform support, quality assurance (Python, AWS CDK, Jenkins, PySpark)
- Selected as Tech Lead of the 2025 Graduate Trainee Programme (React, Python, Jenkins, AWS)

**Cybersecurity & IT Intern, Nippon Life Benefits (New York City, USA)** 05/2024-07/2024

- Significantly streamlined the process of ensuring compliance with NIST CSF 2.0 and New York regulations by revamping critical IT documents including a company-wide Disaster Recovery Plan
- Proactively volunteered for daily helpdesk/technical troubleshooting tasks to reduce the workload of my colleagues and improve my IT problem-solving skills (Microsoft 365, Windows)

**King's Undergraduate Research Fellow (London)** 07/2023-10/2023

- 1 of 2 students selected to develop a novel tech-based learning approach for detecting vulnerabilities in C programs for the Security Engineering module at King's; initial internship period extended by 3 months
- Created a case study for a new assignment which would integrate my novel approach for learning defensive software security, which was later implemented into a module assignment completed by 100+ students annually

### **Extracurriculars:**

#### **Self-Taught Cybersecurity Knowledge**

- Since 02/2024: Created my own blog discussing current cybersecurity and IT concepts, including recent breaches and hacking (Capture the Flag) tutorials
- 07/2023: Became CompTIA Network+ certified, demonstrating knowledge in networking and troubleshooting

### **Awards and Competitions:**

- 2024: HK\$10,000 Entrance Scholarship from HKUST
- 2023: King's Experience Research Award: awarded to select research fellows who have produced quality research
- 2022: Google Solution Challenge (3-month international hackathon, JavaScript): awarded First Place in United Kingdom and Top 50 Global Finalist out of over 800 teams worldwide

### **Skills:**

Technical Skills: Python, Bash, Jenkins, SQL, Git & GitHub, PySpark, Windows, MS Office, macOS, LaTeX  
Languages: English (Native), German (B1)