Benjamin Caine

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Profile
Student developer with hands-on experience across web applications, automation, and data dashboards. Currently building practical cybersecurity skills through controlled lab exercises, with a focus on understanding web vulnerabilities and documenting findings clearly.

Education
Nanyang Polytechnic — Diploma in Information Technology (in progress)   Expected Graduation: 2027
Relevant focus: web development, databases, data visualisation, and applied security fundamentals.

Skills
• Programming: Python (intermediate), Java (learning), JavaScript (basics)
• Web: Flask, HTML/CSS, Bootstrap, REST concepts
• Automation: Selenium, Beautiful Soup, Requests, data extraction and cleaning
• Data: SQL, Power BI (DAX), Excel, basic statistics
• Cybersecurity (learning): Burp Suite, Nmap, OWASP Top 10 concepts (controlled environments only)

Projects
TechBazaar — IT Services Marketplace (Web App)   Flask • Bootstrap • SQL
• Designed a multi-role workflow (customer, technician, admin) with consistent UI and navigation.
• Built admin analytics views and operational pages to track jobs, disputes, and status mixes.
• Emphasised maintainability through reusable components and a clean project structure.

Job Listings Scraper (Automation)   Python • Selenium • openpyxl
• Automated extraction of job details (company, salary, employment type, location, and URLs) from dynamic pages.
• Handled pagination and resilient selectors; exported structured outputs for downstream analysis.

Power BI Dashboard — Cost of Living vs Quality of Life   Power BI • DAX • Data Modelling
• Transformed multi-year datasets (including unpivoting) and validated measures against source tables.
• Built interactive visuals and insights that remain stable under slicers and multi-select filters.

Cybersecurity Labs (Ethical Practice)   Burp Suite • Nmap
• Practised request/response analysis and basic reconnaissance within local, permissioned lab setups.
• Documented observations, potential impacts, and remediation ideas to strengthen secure development habits.

ESP32 Morse Code Relay (Engineering)   ESP32 • Arduino/C++ • GPIO
• Implemented Morse encoding and timing control to drive output signals (LED/buzzer/relay).
• Explored reliability considerations such as spacing rules, repeatability, and clean function design.