

Name: Davide Correia
Email: davide.correia@outlook.com

GitHub: <https://github.com/user5423>
LinkedIn: <https://linkedin.com/in/davidecorreia>

Education

- Bachelor's in Computer Science at Durham University – 1st year grade average = **75.5** (July 2023)
- A-Levels in Maths, Economics, and Chemistry at The London Oratory School = **AAA** (August 2020)

Technical Skills

- **Programming Languages:** Python (Cython), C, C++, HTML, CSS, JavaScript (NodeJS), MySQL
- **Network Engineering:** Hardware Configuration, Network Design, Sockets, Pycurl, Aiohttp, Boost.Asio
- **Information Security:** OSINT, Recon, Vulnerability Scanning, Linux Exploitation, Web Exploitation
- **Technologies:** Git, CI/CD, Docker, SQLAlchemy ORM, RESTful APIs, Linux, Windows

Work Experience

Nirvana Packaging Ltd (September 2020 – April 2021)

Software Engineer Contractor – Designed and developed an application with **Python** and **C**:

- **Automating production suboperations:**
 - Reduced losses from underestimated projections by 9% by improving the accuracy of projections and eliminated the majority of human requirement in production workflow via automation.

The OSINT Search Engine (May 2019 - TBC)

Software Engineer – Designed and developed applications in **Python**, **Cython**, **C**, and **C++** including:

- **Concurrency Execution Framework:**
 - Developed a flexible and extensive interface for writing concurrent multi-user apps in python that reduces development time and provides more functionality than standard threaded libraries.
- **Concurrent Networking Framework:**
 - Developed a multi-user networking framework built on libcurl capable of 1,000,000 req/min on an 8vCPU GCP VM which provides combined per-user, per-resource, and per-exit request scheduling.
- **Unified API Client Interface Framework:**
 - Developed a high-level hub interface that integrates user-defined RESTful APIs via OAS3.0-like definitions, that handles caching, validation, multi-credential selection, and rate-limit adherence.
- **Network Traffic Proxifier Library:**
 - Developing an MVP for secure and anonymous communication built on decentralized networks which provides a cost-effective method of obtaining/retiring IPv4 addresses for recon operations.

Totality Services Ltd (August 2019 – August 2019)

Network Infrastructure Intern – Shadowed and worked in both IT projects and IT support teams:

- **IT Infrastructure Projects Team**
 - Configured enterprise hardware from vendors, including Cisco and Ubiquiti, and performed remote and onsite onboarding and configuration of pre-existing and new infrastructure.

Notable Independent Work

- **Prying Scurry** – Designed and developed a web app that is a recon tool hub that provides a GUI/API for concurrent scan execution and graphical report creation, with easy tool integration built in **JS** and **NodeJS**.
- **Bee Lurer** – Designed and developing an MVP malicious Tor exit-node scanner, that lures adversaries with bait credentials into honeypots or services booby-trapped with canary tokens built in **Python** and **Docker**.
- **Evil Minions** – Designing and developing a mesh network of physically planted ESP8266's to perform distributed wireless tasks including Deauth, Evil Twin, and Probe attacks built in **C++ (Arduino)**.
- **Hack The Box** – Gained root privileges on 25 **Linux**, **Windows**, and **BSD** machines and achieved the rank of "Pro Hacker" by attaining 45% ownership of all labs on the penetration-testing platform.