

Rajveer Singh Sandhu

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PERSONAL PROFILE

I am a Cyber Security student with a strong foundation in emerging technologies, focused on robust, testable software. Drawing on experience across the UK Defence ecosystem, I turn complex risks into production ready solutions with a focus on secure development practices. I'm excited to work on dependability-first designs, strengthening functional safety and global reliability.

EDUCATION

2023 - 2027 BSc Cyber Security at **The University of Warwick** (Working at Grade: 2:1)
– Explored how to **design, build and maintain** secure systems.
– Analysed & Secured **enterprise-scale networks, databases and web applications.**

PROJECTS

Go-Search-Engine | [GitHub](#) **Personal Project**
Search Engine
A lightweight, self-hosted “go links” server that replaces bookmarks with URL shortcuts.
– Maintained with CI/CD enforcing security & functionality.
– Integrated Opensearch support for dynamic searching.
– Full docker support and maintenance.
Technologies: Python (Flask), Opensearch, SQLite, git

Qiboopt | [GitHub](#) **Open Source**
Qibo.science | [Documentation](#)
Suite of tools for building optimisation circuits.
– Implemented a range of QAOA types & examples.
– Made use of OOP principles to foster maintainable code.
– Added a full set of tutorials to develop my own knowledge.
Technologies: Python (qibo), Qiskit

GOatpad | [GitHub](#) **Personal Project**
Text Editor & Language Server
Vim-like text editor built using Golang and c++.
– Hardened every feature with thorough testing.
– Implemented PR-level AI Code reviews with feature branches.
– Developed a modular Language server with IDE features.
Technologies: Golang, C++, Graphite, git

Powered Learning **Future Product** | [GitHub](#)
Study Planning Web App
Webapp that uses my [Subject-Recommender](#) to generate dynamic study plans with subject performance and biases.
– Helps those with exam anxiety to choose what to study.
– Harnesses large datasets with a complex weighting system.
– Deploys dynamic job queues to handle many API requests.
Technologies: Elixir, Pheonix, SQLite, Python

EXPERIENCE

UK Software-Delivery Company June 2025 — September 2025
Security Engineering Intern
Team Software Development project to build a python client for a mobile service using capture data.
– Headlined consistent meetings with seniors and team members to discuss progress.
– Followed key agile principles while working with delivery teams to ensure business compliance standards.
– Maintained and Expanded core business infrastructure to expand testing capabilities.
Technologies: Source Control, JIRA, Gitlab, Python, MitmProxy, ProxMox, Unix Networking

QinetiQ June 2024 — September 2024
Cyber Summer Intern | Quantum Capabilities Researcher
Researched and evaluated upcoming quantum computing technologies for use within the UK Defence sector.
– Constructed and presented a report on the viability of Quantum Photonics for machine learning algorithms.
– Developed QAOA solutions to solve binary optimisation problems, with applications within the national defence sector.
– Investigated and realised the potential of a multitude of quantum computing technologies.
Technologies: MATLAB, Python (Numpy, Pandas, PyTorch), Qiskit SDK, OpenQASM 2.0

SKILLS & INTERESTS

Languages: Python, C#, Go, C++, SQL (sqlite, SSMS), Elixir (Beginner)
Other Interests: Digital Photography, Reading, Hiking, Baking, Retro tech restoration