

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.
- Worked with and secured **large-scale networks, databases and web applications**.

PROJECTS

GOatpad | [GitHub](#)

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 compatible Language server & IDE features.

Technologies: Golang, c++, Graphite

Personal Project

qiboopt Plugin | [GitHub](#)

Documentation

Built a quantum optimisation toolkit and tutorial suite.

- Implemented Multi-angle and Linear-ramp algorithms.
- Added optimization workflows and feasibility assessments.
- Authored tutorials with reproducible visualizations.

Technologies: Python, qibo

Open Source

Go-Search-Engine | [GitHub](#)

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

Personal Project

Powered Learning | [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: php, Laravel, PostgreSQL, python

Personal Project

EXPERIENCE

UK Software-Delivery Company Software Engineering Intern

June 2025 — September 2025

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.

QinetiQ

Cyber Summer Intern | Quantum Capabilities Researcher

June 2024 — September 2024

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.

SKILLS & INTERESTS

Languages: Python, C#, Go, C++, SQL (sqlite, SSMS, PostgreSQL)

Other Interests: Digital Photography, Reading, Hiking, Baking, Retro tech restoration