

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++.	Personal Project	qiboopt Plugin GitHub Documentation Built a quantum optimisation toolkit and tutorial suite.	Open Source
<ul style="list-style-type: none">– Hardened every feature with thorough testing.– Implemented PR-level AI Code reviews with feature branches.– Developed a compatible Language server & IDE features. <i>Technologies: Golang, c++, Graphite</i>		<ul style="list-style-type: none">– Implemented Multi-angle and Linear-ramp algorithms.– Added optimization workflows and feasibility assessments.– Authored tutorials with reproducible visualizations. <i>Technologies: Python, qibo</i>	
Go-Search-Engine GitHub Search Engine A lightweight, self-hosted “go links” server that replaces bookmarks with URL shortcuts.	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.	Personal Project
<ul style="list-style-type: none">– Maintained with CI/CD enforcing security & functionality.– Integrated Opensearch support for dynamic searching.– Full docker support and maintenance. <i>Technologies: Python (Flask), Opensearch, SQLite</i>		<ul style="list-style-type: none">– 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. <i>Technologies: php, Laravel, PostgreSQL, python</i>	

EXPERIENCE

UK Software-Delivery Company Software Engineering Intern Team Software Development project to build a python client for a mobile service using capture data.	June 2025 — September 2025
<ul style="list-style-type: none">– 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 Researched and evaluated upcoming quantum computing technologies for use within the UK Defence sector.	June 2024 — September 2024
<ul style="list-style-type: none">– 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