

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

ACME Furniture Github Mock Shopping Web Application Blazor web application, made to show off DevSecOps skills. <ul style="list-style-type: none">- Built with enterprise-scale maintainability and growth.- Automated SAST & CI/CD and built a report with DAST.- Tested with vulnerability scanners - OWASP ZAP & Snyk. <i>Technologies: Blazor, C#, Visual Studio EFC, Azure, SSMS</i>	University Project	GOatpad GitHub Text Editor & Language Server Vim-like text editor built using Golang and c++. <ul style="list-style-type: none">- Hardened every feature with thorough testing.- Implemented PR-level AI Code reviews with feature branches.- Developed an OO Language server with IDE features. <i>Technologies: Golang, Visual Studio C++, Graphite, git</i>	Personal Project
MySchoolPlanner Github Timetable and Planner Web App AspNet management platform for teachers and students. <ul style="list-style-type: none">- Debugged with Visual Studio IDE.- Applied Entity Framework Core and MVC principles.- Built with OOP design standards in mind <i>Technologies: C#, Asp.Net MVC, Visual Studio EFC, SSMS</i>	Highschool Project	Go-Search-Engine GitHub Search Engine A lightweight, self-hosted “go links” server that replaces bookmarks with URL shortcuts. <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, git</i>	Personal Project

EXPERIENCE

UK Software-Delivery Company Software Engineering Intern Team Software Development project to build a python client for a mobile service using capture data. <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. <i>Technologies: Source Control, JIRA, Gitlab, Python, MitmProxy, ProxMox, Unix Networking</i>	June 2025 — September 2025
QinetiQ Cyber Summer Intern Quantum Capabilities Researcher Researched and evaluated upcoming quantum computing technologies for use within the UK Defence sector. <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. <i>Technologies: MATLAB, Python (Numpy, Pandas, PyTorch), Qiskit SDK, OpenQASM 2.0</i>	June 2024 — September 2024

SKILLS & INTERESTS

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