

TRILOK SINGH

Independent IT Consultant • Software & Web Solutions

Professional Profile & Capability Statement

From DOS-era computing to modern AI-assisted development

25+ YEARS

Building, supporting and improving practical technology systems for schools, public-sector offices, businesses and independent digital ventures.

A PRACTITIONER'S PROFILE

I have worked with computers since the period when DOS, command-line utilities and stand-alone systems were the norm. Over the years, my work has moved through hardware support, training, desktop applications, relational databases, reporting systems, web development, hosting, online payments and server administration. Today, I also use AI-assisted tools to accelerate development—while keeping requirement analysis, architecture, security, testing and final responsibility firmly in my own hands.

WHAT I BRING TO A CLIENT

- One experienced point of responsibility—from requirement discussion and solution design to deployment, troubleshooting and continuing support.
- The ability to work across software, database, website, hosting, server, network and end-user issues rather than viewing each problem in isolation.
- A practical approach shaped by long-term, real-world use: solutions must be understandable, maintainable and useful after launch—not merely impressive in a demonstration.
- Current AI-assisted productivity combined with independent technical judgement developed over decades.

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PROFESSIONAL PERSPECTIVE

I do not approach a client assignment as a collection of isolated technical tasks. I begin by understanding how the organisation actually works: who uses the system, what information moves through it, where errors occur, what must be protected, and what level of support will be realistic after deployment.

That perspective is particularly important for schools and small organisations, where one solution may touch administration, accounts, reporting, websites, online payments, data backups, staff training and day-to-day troubleshooting. My role is to connect those parts and provide a solution that can survive real operational use.

CORE ENGAGEMENT AREAS

Custom software solutions

Desktop and database-driven applications, workflow automation, administrative systems, data validation, imports/exports, operational reports and long-term

maintenance.

Education technology

Fee collection, examination processing, report cards, rank lists, registers, student records, certificates, payment reconciliation and school-specific workflows.

Websites & portals

WordPress and custom web solutions, content structure, responsive layouts, forms, search and filtering, performance, security, maintenance and ongoing publishing support.

Online payments

Payment-gateway integration, transaction workflows, convenience-charge logic, response handling, reconciliation support and user-facing payment journeys.

Hosting & infrastructure

Domains, DNS, shared hosting, VPS environments, Apache/PHP/MySQL configuration, backups, migrations, uptime troubleshooting and security hardening.

Technical support & recovery

Diagnosis across operating systems, databases, networks, applications, hardware and hosting; practical recovery and continuity support.

AI-assisted development

Faster research, prototyping, code generation, refactoring, debugging, test preparation, documentation and content workflows under experienced human supervision.

HOW I USE AI RESPONSIBLY

AI has become an important part of my working toolkit, but it does not replace the judgement required to build dependable systems. I use AI to reduce repetitive effort, compare implementation options, accelerate first drafts of code, uncover edge cases, improve documentation and speed up structured content production.

The final solution is still governed by my own understanding of the client's process, database structure, security requirements, deployment environment and long-term support needs. I review, test and adapt AI-assisted output before it becomes part of a live system. This gives clients the speed advantages of modern tools without depending on unverified, machine-generated work.

EXPERIENCE BUILT OVER TIME

My technical career has developed continuously rather than through a single technology stack. Each stage added a layer that remains useful in current work.

1997–2000

Senior Faculty & IT Trainer, Galaxy Computers. Training in computer fundamentals, operating systems, hardware, troubleshooting and basic security; preparation of practical training material for students and professionals.

2001–Present

Founder / Senior IT Specialist, OrreryHIM. Independent delivery of software, websites, hosting, infrastructure support and consulting for education, government and private-sector clients.

Desktop era

Development and support of Windows-based business applications using VB.NET, Microsoft SQL Server, MS Access and Crystal Reports.

Web expansion	WordPress, ASP.NET, PHP, JavaScript, CSS, online portals, forms, content systems, payment workflows and cross-platform website support.
Server & cloud	Domain and hosting management, VPS administration, Apache, PHP/MySQL environments, backups, migrations, troubleshooting and security-conscious configuration.
Current practice	AI-assisted coding, automation, testing, research and content operations integrated into an established engineering and support workflow.

REPRESENTATIVE SOLUTION EXPERIENCE

School administration and fee systems: Custom workflows for student records, fee structures, receipts, concessions, fines, monthly status, online payments, reconciliation and printable reports.

Examination and reporting systems: Marks processing, attendance, presence status, rankings, report cards, tabulation, Excel-based imports/exports and Crystal Reports output.

Institutional websites: Complete website lifecycle support including planning, information architecture, design, development, content publishing, hosting, maintenance, backups and security.

Public-sector and technical support: Infrastructure and security-conscious support assignments, including work connected with the Sirmour Police Department.

Regional digital publishing: Creator and operator of A Guide to Himachal, combining website engineering, search and filtering, structured content operations, research and AI-assisted production.

Business continuity support: Long-term diagnosis and support where software, databases, networks, websites, hosting and user processes overlap.

TECHNOLOGY WORKING SET

Software & data	VB.NET, ASP.NET/WebForms, Microsoft SQL Server, MS Access, Crystal Reports
Web & content	WordPress, Divi, PHP, JavaScript, HTML, CSS, Joomla, MySQL
Infrastructure & operations	Windows, Linux, macOS, Apache, VPS, hosting, domains, DNS, networking, backups, payment gateways, virtualisation

HOW AN ENGAGEMENT WORKS

01 Understand	Discuss the actual problem, current workflow, users, data, constraints, risks and expected outcome.
02 Define	Convert the requirement into a practical scope, solution approach, responsibilities and realistic delivery plan.
03 Build	Develop or configure the solution using proven tools, reusable components and AI-assisted acceleration where appropriate.
04 Verify	Test the workflow, calculations, data handling, permissions, responsiveness, backups and deployment environment.

05 Deploy

Move the solution into real use, provide guidance, address initial issues and establish a support path.

06 Support

Maintain continuity through troubleshooting, improvements, updates and direct communication when operational needs change.

WHY CLIENTS RETAIN MY SERVICES

- Depth without unnecessary complexity: I can discuss strategy with a decision-maker and also work directly at code, database, server or troubleshooting level.
- Continuity: my work has been built around long-term client relationships, not one-time delivery followed by disappearance.
- Practical independence: I am comfortable maintaining established systems, modernising older workflows and introducing new tools without discarding what already works.
- Accountability: I remain responsible for the delivered result; AI tools, third-party platforms and frameworks are working instruments, not excuses.
- Clear communication: clients deal directly with the person analysing, building and supporting the solution.

EDUCATION & PROFESSIONAL CREDENTIALS**Academic**

M.Sc. Information Technology — KSOU
PGDCA — Cal-C / Punjab Infotech

Certifications

Microsoft Certified Technology Specialist (MCTS)
Ethical Hacking Certification — zSecurity

A RELIABLE TECHNICAL PARTNER FOR WORK THAT MUST KEEP WORKING