

TRILOK SINGH

Senior IT Consultant | Software, Web & AI-Assisted Solutions

Nearly three decades in computing • 25+ years in independent consulting

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PROFESSIONAL PROFILE

Senior IT professional and independent consultant with hands-on experience spanning the evolution from DOS-based computing to modern cloud, web and AI-assisted development workflows. Since beginning as an IT trainer in 1997 and establishing OrreryHIM in 2001, I have designed, deployed and supported business-critical software, websites, payment systems, databases, servers and IT infrastructure for schools, government offices and private organisations. I combine long-standing technical judgement with current AI tools to accelerate research, prototyping, coding, testing and documentation—while retaining full human control over architecture, security, data, quality and client requirements.

CORE COMPETENCIES

Software Engineering

VB.NET desktop applications, ASP.NET/WebForms modules, business logic, system maintenance and modernisation

Web Solutions

WordPress/Divi, PHP, JavaScript, CSS, Joomla, responsive design, custom functionality and performance optimisation

Infrastructure

VPS, Apache, hosting, domains, DNS, backups, networking, Windows/Linux/macOS support and troubleshooting

Database & Reporting

Microsoft SQL Server, MySQL, MS Access, data modelling, SQL queries, Crystal Reports and operational reporting

Payments & Integrations

Online fee collection workflows, payment gateway integration, transaction handling and reconciliation support

AI-Assisted Delivery

Responsible use of AI for faster prototyping, code generation, debugging, content workflows, documentation and automation

PROFESSIONAL EXPERIENCE

ORRERYHIM | Founder, Senior IT Consultant & Solution Developer

April 2001 – Present | Solan, Himachal Pradesh

- Designed, developed and maintained long-life desktop applications using VB.NET, Microsoft SQL Server and Crystal Reports, including fee, examination, reporting and administrative systems for educational institutions.
- Built and managed WordPress and custom web solutions covering information architecture, responsive design, custom code, performance, security, hosting, backups and ongoing administration.
- Developed ASP.NET modules and integrated payment gateways for online fee collection, transaction processing and operational reporting.
- Managed complete website and infrastructure lifecycles: domain registration, DNS, hosting, VPS/server configuration, SSL, migrations, email, security hardening, monitoring and troubleshooting.
- Provided tailored software, networking, hardware and technical support to schools, government departments and private-sector clients, including work supporting the Sirmour Police Department.
- Adopted AI-assisted engineering workflows to accelerate prototyping, coding, debugging, testing, documentation and content production without compromising independent technical review, security or accountability.
- Maintained long-term client relationships through direct support, dependable delivery, practical problem-solving and continuous system improvement.

GALAXY COMPUTERS | Senior Faculty & IT Trainer

January 1997 – December 2000

- Delivered practical training in DOS, Windows, computer hardware, operating systems, software fundamentals and basic system security.
- Created course material, technical manuals and hands-on exercises based on learner needs and technology changes.
- Trained students and working professionals in both individual and classroom settings, assessed outcomes and improved delivery methods.

SELECTED SOLUTIONS & ENGAGEMENTS

- School administration software: fee collection, examination processing, report cards, rank lists, receipts, registers and database-backed reporting.
- Online payment systems for educational institutions using ASP.NET, SQL Server and payment gateway integrations.
- Public-sector IT infrastructure and support engagements, including security-conscious work for police/government environments.
- WordPress/Divi websites, custom content portals, hosting and maintenance for educational, hospitality, tourism, retail and professional clients.
- A Guide to Himachal: independently developed and managed regional information portal combining web publishing, structured content and modern AI-assisted editorial workflows.

TECHNICAL PROFICIENCY

Programming	VB.NET, ASP.NET/WebForms, PHP, JavaScript, HTML, CSS, SQL
Databases & Reporting	Microsoft SQL Server, MySQL, MS Access, Crystal Reports
Web & CMS	WordPress, Divi, Joomla, Apache, responsive web development, website administration
Infrastructure	Windows, DOS, Linux, macOS, VPS, web hosting, DNS, SSL, backups, networking, VMware, Parallels
Modern Workflow	AI-assisted coding, research, debugging, content generation, documentation and process automation

EDUCATION & CERTIFICATIONS

- M.Sc. in Information Technology — Karnataka State Open University (KSOU)
- Post Graduate Diploma in Computer Applications (PGDCA) — Cal-C / Punjab Infotech
- Microsoft Certified Technology Specialist (MCTS)
- Ethical Hacking Certification — zSecurity (online)

PROFESSIONAL STRENGTHS

Independent problem-solving • Client-focused consulting • Long-term system ownership • Legacy-to-modern technology understanding • Security awareness • Clear technical communication • Continuous self-learning