

SANDEEP GUPTA

TECHNOLOGY LEADER | SOLUTIONS ARCHITECT | IT PROGRAMME & ENGINEERING LEADERSHIP

MSc Computer Science (Merit), University of Bristol | B-Tech IT | PMP | PhD - Explainable AI

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PROFESSIONAL PROFILE

Technology leader with 15+ years of experience across solution architecture, engineering leadership, IT programme delivery, LMS/EdTech, enterprise applications, cloud and secure software development. Currently CTO of LDS Engineers Pvt Ltd, leading a 50+ member development organisation and managing delivery from discovery and architecture through implementation, integration and post-launch optimisation. Previous professional experience in Bristol and London, with additional international experience in Malaysia and client delivery across the UK, US and Australia. Combines senior stakeholder management and programme ownership with hands-on technical depth in modern web, cloud, API and LMS ecosystems.

TARGET ROLE ALIGNMENT

Technology / IT Leadership	Solutions Architecture	IT Project & Programme Management
Engineering Management	Enterprise Integration	Agile Delivery
Technical Governance	Cloud & API Platforms	Stakeholder Management
LMS / Moodle / EdTech	Secure Software Engineering	AI / XAI Research
SCORM & Learning Platforms	Cybersecurity Practices	Data-informed Learning Systems
Digital Learning Systems	Scalable Web Platforms	Technical Innovation

PROFESSIONAL EXPERIENCE

Chief Technology Officer | LDS Engineers Pvt Ltd | Aug 2015 - Present

- Lead technology strategy, architecture and delivery across LMS/EdTech, enterprise, e-commerce and custom software programmes, translating business objectives into secure and scalable technical solutions.
- Lead and supervise a 50+ member development organisation, with responsibility for engineering quality, delivery governance, application performance, security and technical decision-making.
- Own end-to-end client delivery from requirements discovery and solution design through estimation, implementation, integrations, deployment and post-launch optimisation.
- Architect and oversee solutions using Node.js, PHP/Laravel, MySQL, React.js, Moodle and REST APIs, including third-party, analytics, payment and enterprise integrations.
- Work directly with senior stakeholders and international clients across the UK, US and Australia, aligning technical scope, delivery priorities, risks and commercial expectations.
- Promote secure engineering through architecture reviews, code review, vulnerability assessment, secure coding and performance/scalability practices.

Software Architect | SynapseIndia Outsourcing Pvt Ltd (Modi Group) | Jun 2013 - Jul 2015

- Designed web and e-commerce solution architectures using PHP, MySQL and Drupal, including REST API and third-party service integrations.
- Led a 7-member development team in a CMMI Level 3 environment and contributed to architecture reviews, security audits and delivery quality.

Senior Software Engineer | SynapseIndia Outsourcing Pvt Ltd (Modi Group) | Aug 2012 - May 2013

- Delivered and optimised CMS/e-commerce applications and resolved framework and API-integration issues across JavaScript, PHP, Drupal and Moodle.

Senior Software Engineer | Eukleia Training SDN BHD, Malaysia | Oct 2011 - Jul 2012

- Developed ERP applications and supervised a 12-member development team, combining hands-on engineering with project coordination and secure data practices.

Developer | Eukleia Training Ltd, London, UK | Sep 2010 - Sep 2011

- Designed Moodle-based learning solutions and developed a Java2EE application for SCORM testing using Java, MySQL, MVC, EJB and Apache Tomcat.

Programmer | University of Bristol, Bristol, UK | Feb 2010 - Sep 2010

- Developed Java applications using AES encryption for secure data transfer and built custom applications supporting research workflows.

ERP Intern | National Hydro Power Corporation Limited (NHPC), India | Jun 2007 - Jul 2007

- Designed an ERP concept to centralise organisational data using Java and MySQL.

EDUCATION & PROFESSIONAL CREDENTIALS

PhD - Computer Science & Engineering | Shiv Nadar University | 2025 - Present

- Research: Explainable Artificial Intelligence (XAI) applied to learning management systems and educational analytics.

MSc Computer Science - Merit | University of Bristol, School of Engineering, UK | 2009 - 2010

B.Tech Information Technology - First Class Honours | Institute of Engineering & Management (WBUT), Kolkata | 2005 - 2009

PMP Certification

TECHNICAL ENVIRONMENT

Architecture & Backend: Node.js, PHP, Laravel, MySQL, SQL, RESTful APIs, enterprise and third-party integrations

Frontend & Platforms: React.js, Vue.js, JavaScript, Drupal, Moodle, WordPress

Cloud & DevOps: AWS, Azure DevOps, Docker, GitHub Actions, Git

Security: Secure coding, vulnerability assessment, penetration-testing practices, encryption

Additional Technical Depth: Java, Python, Web3.js, Ethers.js, Solidity, Hardhat, smart contracts

ADDITIONAL LEADERSHIP

LDS Trading Limited, Europe - Managing Partner

LDS Global Trading Pty Ltd, Australia - Director