

Nitya Singh

✉ nityasingh615alg@gmail.com ☎ +44 7393069331 📍 Liverpool, UK 🔗 [linkedin.com/in/nitya-singh-984232198](https://www.linkedin.com/in/nitya-singh-984232198)

Profile

Civil Engineering postgraduate (MSc Sustainable & Structural Civil Engineering, University of Liverpool) with strong foundations in structural analysis, sustainable infrastructure, and water systems. Hands-on experience in site supervision, material testing, and structural safety assessment, complemented by published research in water management, green buildings, and smart infrastructure. Proficient in AutoCAD, STAAD Pro, GIS, and MATLAB, seeking a Graduate Civil/Structural Engineer role in the UK.

Education

MSc Sustainable Civil & Structural Engineering <i>University of Liverpool</i>	01/2025 – 01/2026 Liverpool, UK
B.Tech. - Civil Engineering <i>JSS Academy of Technical Education</i>	08/2019 – 06/2023 Noida, India

Professional Experience

Internship <i>Uttar Pradesh Rajkiya Nagar Nigam Ltd</i> - Analyzed building structures for stability and safety in accordance with Indian Standards, supporting compliance and risk reduction. - Conducted material analyses for Quality and appropriateness. - Supervised on-site labor to ensure safe working practices and adherence to construction schedules. - Scrutinized blueprint to ensure accurate implementation.	08/2022 – 09/2022 Aligarh, India
Internship <i>Uttar Pradesh Rajkiya Nagar Nigam Ltd</i> - Conducted comprehensive site survey to understand the terrain and environment. - Performed detailed building analyses to ensure structural integrity. - Carried out meticulous material analyses to guarantee the quality and suitability of construction materials.	01/2022 – 02/2022 Ghaziabad, India

Projects

MSc Project <i>Microplastic in River Environment</i> - Focus: Environmental impact assessment of microplastics on river hydrodynamics. - Used SEM analysis to evaluate surface morphology changes in polyethylene microplastics. - Conducted settling velocity experiments and correlated surface roughness with hydrodynamic behavior.	06/2025 – 09/2025
B.Tech. Project <i>Integrative Characterization and Evaluation of Surface Water Quality in Aligarh District, Uttar Pradesh</i> - Its objective was to analyze physicochemical parameters and use tools like the Water Quality Index (WQI) to assess water suitability. - The study identifies pollution sources and proposes strategies for sustainable resource management and remediation.	11/2022 – 04/2023

Skills

Technical Software AutoCAD, STAAD Pro, MATLAB, GeoStudio, GIS	Engineering Skills Structural Analysis, Site Surveying, Material Testing, Project Coordination	Data & Tools MS Excel, Report Writing, Research Analysis
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Publications

Intelligent Water Management: Implementing IoT and AI for Enhanced Efficiency and Sustainability <i>BK Shukla, R Saraswat, N Agarwal, N Singh, HK Singh, S Verma</i> Unleashing the Power of Blockchain and IoT for Water Informatics, Springer, Singapore, vol. 1, pp. 189-207. ISBN: 978-981-96-3885-7.	02/07/2025
A Technological and Environmental Overview of Waste-To-Energy Systems for Effective Municipal Solid Waste Management <i>N Singh, BK Shukla, AK Pandey</i> Springer Proceedings in Energy, Springer, Singapore. Vol. 02, pp. 127–142. ISBN: 978-981-96-0009-0.	15/04/2025
An Overview on Healthy, Intelligent and Sustainable Green Buildings <i>N Singh, BK Shukla</i> Lecture Notes in Electrical Engineering, Springer, Singapore. Vol. 1260, pp. 697–707. ISBN: 978-981-97-7384-8.	01/04/2025
Application of Nanomaterials in Water Purification: A Thematic Review <i>BK Shukla, RD Singh, N Singh, S Singh, YK Burman, R Singh</i> Lecture Notes in Civil Engineering. Springer, Singapore, vol. 439, pp. 97-113. ISSN: 2366-2557.	17/10/2023

Integrating IoT and Machine Learning for Efficient Urban Transportation: A Comprehensive Analysis of Smart Public Transit Solutions and Strategies for Sustainable Smart City Infrastructure

27/05/2023

B.K. Shukla, N. Singh

National Conference on Sustainable Development of Smart Cities Infrastructure (SDSCI-2023), NIT Kurukshetra, Haryana.

ISBN: 978-93-90951-65-9.

Application of IoT and Building Information Modeling in Construction, Performance, Maintenance and Structural Health Monitoring of Buildings

24/02/2023

B.K. Shukla, P.K. Sharma, C. Sharma, A. Tripathi, N. Singh

National Conference on Internet of Things & Embedded Systems (NCIE-2023), NIT Kurukshetra, Haryana.

Right to Work

Eligible to work in the UK under the Graduate Visa