

# GAIBUL BHULLAR

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## Education

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<b>MSc in Spatial Development and Infrastructure Systems - ETH Zurich</b>	:Expected	Sept. 2026
<b>Bachelors of Planning - School of Planning and Architecture, Delhi</b>	:CGPA: 8.28	June 2024

## Skills

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<b>Spatial Analysis:</b>	QGIS, ArcGIS, Raster Analysis (NDVI, LST), Spatial Statistics, CloudCompare
<b>Data &amp; Programming:</b>	R (correlation, regression), RMarkdown, Shell (bash)
<b>Productivity Tools:</b>	Microsoft Office, LaTeX, Adobe Suite, AutoCAD, Sketchup, Unity 3D
<b>Languages:</b>	<u>English</u> (Native), <u>Hindi</u> (Native), <u>Punjabi</u> (Native), <u>Japanese</u> (N4), <u>German</u> (A2)

## Experience

### Professional Experience

#### Research Assistant Intern at Future Cities Laboratory, Singapore ETH Centre (3 months)

- Mapped and analysed survey-based spatial datasets (Zurich & Singapore) using QGIS to examine relationships between public space and well-being.
- Produced interactive maps, visualisations, and analytical outputs for research on urban vitality and social interaction.
- Conducted literature reviews and supported evidence-based reporting for academic publications.

#### Urban Planning Intern at Department of Town and Country Planning, Nahan (6 weeks)

- Conducted land use mapping, infrastructure assessment, and field surveys for statutory development plans.
- Performed land suitability analysis using spatial and environmental indicators.
- Supported drafting of zoning regulations and layout proposals.

#### Intern, Consulting and Valuations at CBRE, Mumbai (6 weeks)

- Analysed hospitality market trends across Indian cities to support real estate valuation.
- Built structured datasets for benchmarking and comparative analysis.

### Selected Projects

#### Master's Thesis – Migrant Belonging and the Experience of Public Space in Zurich (Ongoing)

- Conducting qualitative walking interviews and spatial analysis to understand neighbourhood-scale belonging.
- Integrating survey insights with spatial patterns to inform inclusive planning strategies.

#### Bachelor's Thesis – Revitalising Decaying Rental Housing in Mumbai

- Analysed socio-spatial impacts of rent control using policy review, surveys, and stakeholder interviews.
- Developed redevelopment and housing policy strategies for equitable urban regeneration.

#### Environmental & Spatial Analysis – Sisslerfeld (ETH Zürich)

- Analysed flood risk, ecological corridors, and cold-air flows using spatial datasets.
- Developed planning strategies integrating environmental systems and public space design.

#### Land Use & Environmental Analysis (Udham Singh Nagar, India)

- Generated LULC maps using satellite imagery for a 2,500+ km<sup>2</sup> region.
- Applied NDVI, LST, and soil loss indicators to assess land suitability for development.

#### 3D Spatial Visualisation – Unity-Based Environment Simulation

- Developed a 3D spatial simulation using Unity and real terrain datasets to model an extreme environment.
- Applied soundscapes, gravity settings, and spatial layout design to enhance realism and user perception.

## Extracurriculars

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Founder, Spatula food society - Built a community around food and culture at SPA Delhi.

Undergraduate Secretary, Student Council 2023 - Led academic and cultural initiatives for SPA Delhi.