HASSAN TAHIR // ARCHITECTURAL CASE STUDY WHITE PAPER

Hotel Pulse: Competitive Hospitality Intelligence Pl

Real-time data visualization, competitor benchmarking, and analytics dashbo

ROLE	TIMELINE	SYSTEM	VERIFICATION
Frontend Architect	Oct 2025 - Nov 2025	Hospitality Analytics	Production SLA

99.9% Uptime | Real-Time Insights | Dynamic Charts | Cross-Hotel Benchmarks

1. Market Need & Data Density

Hotels and resort managers needed an intuitive platform to compare occupancy rates, RevPAR, and pricing trends against competitor hotels in real time.
The platform required rendering dozens of interactive charts, geographic heatmaps, and tabular datasets without UI stutter or unresponsive frames.

2. Visualization & State Management

Implemented responsive Canvas and SVG rendering pipelines capable of dynamically streaming metric updates with smooth 60fps animations.
Engineered a modular filtering system allowing hotel executives to slice data across seasons, room tiers, and geographic radius in milliseconds.

3. Business Impact

Empowered hoteliers to make data-backed pricing adjustments within minutes of market shifts.

Delivered zero-regression release cycles and 99.9% platform availability.

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