

Shikhar Singh

Business Systems Builder · Fullstack Engineer

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SUMMARY

Business Systems Builder at GyanTosh Fabricators, driving business development and digital transformation for a manufacturer of industrial boilers, thermic fluid heaters, pollution control systems and complete process heating solutions. Combines hands-on steam and process heating consultation with a fullstack engineering background — building the websites, SEO systems, content and engineering calculators that turn technical depth into commercial pipeline. Works with process plants across Food Processing, Pharmaceuticals, Chemicals, Textiles, Paper, Sugar and Distilleries.

EXPERIENCE

Business Systems Builder — GyanTosh Fabricators Pvt. Ltd.

May 2026 – Present

Indore, Madhya Pradesh, India · Full-time, On-site · Industrial Heating & Process Utility Solutions

- Drive business growth and digital transformation for a manufacturer of industrial boilers, thermic fluid heaters, pollution control systems and complete process heating solutions.
- Consult with plants across Food Processing, Pharmaceuticals, Chemicals, Textiles, Paper, Sugar and Distilleries to understand steam and process heating duty, then specify efficient, reliable and customised thermal solutions.
- Own B2B sales and lead generation, strategic partnerships and customer relationship management across long capital-equipment sales cycles.
- Coordinate projects end to end — from first inquiry through fabrication, installation and commissioning.
- Build and maintain gyantosh.com: website development, technical SEO, structured data and content strategy.
- Implemented the IAPWS-IF97 steam-property engine (regions 1, 2 and 4) powering the site's steam calculators, with unit tests asserting agreement with the R7-97 verification tables to nine significant figures.
- Author the company engineering knowledge base; every figure published is recomputed from that engine rather than copied from reference tables.
- Run LinkedIn and email marketing campaigns, brand development, and market and competitive research.

PUBLISHED ENGINEERING WRITING

Six reference notes for plant engineers, published at gyantosh.com/resources (author profile: [/authors/shikhar-singh](https://authors/shikhar-singh))

- **The Boilers Act, 2025: What Changed for Plant Owners** — repeal of the 1923 Act, third-party inspection, and the shift from criminal to civil penalties.
- **IBR vs Non-IBR Boilers: Which Applies to Your Plant** — the question that determines approval path, inspection obligations and capital cost.
- **Industrial Process Heating: Choosing the Right Medium** — selecting between four media by temperature, pressure and product contact.
- **Sizing Condensate Return Lines: Why the Water Is Not the Problem** — flash steam as 99.6% of condensate volume leaving a trap.
- **Why Steam Mains Hammer, and How to Stop It** — warm-up condensate loads and the root cause of most hammer incidents.
- **How a Thermic Fluid Heater Works** — closed-loop forced circulation, and high temperature without high pressure.

SELECTED TECHNICAL PROJECTS

Excel as Database (TS v2) — TypeScript library and desktop tooling that opens Excel/CSV/JSON files as a queryable database, with a fast grid, sort/filter, in-cell edits and export. Safe write-back to source workbooks.

Dynamic Table Builder — Configurable UI and CRUD generator for building dynamic data tables with custom columns, filters and export.

- Hoppscotch Clone** — Lightweight HTTP client: request builder, collections, environments, response viewer and local history.
- Election Management System** — Fullstack MERN application managing candidates, ballots and results across admin and voter interfaces.
- Okta Auth Tester** — Authentication playground covering AuthN and OAuth2/OIDC flows, scopes, groups and a protected CRUD API.
- Taskify (Kanban)** — MERN Kanban board with drag-and-drop, filters and server-side pagination.

SKILLS

Business & Growth	Business Development · Strategic Partnerships · B2B Sales & Lead Generation · Technical Consultation · Digital Marketing & Brand Development · SEO & Content Strategy · LinkedIn & Email Marketing · Market Research & Competitive Analysis · CRM · Product Management
Industrial & Thermal	Steam Boilers · Thermic Fluid Heaters · Biomass, AFBC, Oil & Gas and Rice Husk / Multi-Fuel Boilers · Boiler Auxiliaries · Pollution Control Equipment · Industrial Chimneys & Steel Structures · Steam System Sizing · Condensate Recovery · IAPWS-IF97 Steam Properties · Indian Boilers Act 2025 · Project Coordination to Commissioning
Engineering	JavaScript · TypeScript · React · Next.js · Node.js · Express.js · MongoDB · SQL · Redux & Thunk · iOS Development · Flutter · HTML · CSS · Git · Data Structures & Algorithms · Low-Level & High-Level Design · DevOps · Data Engineering

EDUCATION & TRAINING

WR Training Pro (Udemy)	2026
Steam Boilers, Steam & Condensate Systems — 16-Hour Masterclass	
Scaler	2022 – 2024
Software Development, Product Management and Data Engineering — 500+ DSA problems solved, HLD and LLD, fullstack specialisation	
Medicaps Institute of Science and Technology, Indore	2013 – 2017
BE, Information Technology	

ACHIEVEMENTS

- Authored six published engineering reference notes on industrial steam, condensate and boiler regulation.
- Built an IAPWS-IF97 implementation verified against the R7-97 tables to nine significant figures.
- 600+ day coding streak and Rank 1 in a contest at Scaler.