

RANVEER SINGH RANAWAT

Angular Developer | Frontend Engineer | Software Development Engineer

Bengaluru, India • +91 63769 16840 • ranveer.ranawat11@gmail.com

[linkedin.com/in/ranveer-ranawat](https://www.linkedin.com/in/ranveer-ranawat)

SUMMARY

Angular Developer with 3 years of professional frontend development experience delivering a long-term commercial B2B product for a global FMCG client, where I built data-driven live dashboards and analytical UI, owned the end-to-end Angular v15 to v21 framework upgrade, migrated MSAL/Azure AD authentication across major versions, and ensured application stability through regression fixes and production support. Strong practical experience with TypeScript, RxJS and reactive programming, Reactive Forms, Angular Material and CDK, routing, dependency injection, and change detection. Builds responsive, data-driven dashboards and analytical reporting UI integrated with REST APIs, and ships through Azure DevOps CI/CD pipelines with pull-request and code-review workflows. Microsoft Certified in Azure Fundamentals (AZ-900) and Azure AI Fundamentals (AI-900); delivers frontend for AI/ML-driven product features and uses GenAI tooling in day-to-day development.

CORE SKILLS

Frontend: Angular (v15 – v21), TypeScript, JavaScript (ES6+), HTML5, CSS3, Sass/SCSS, Flexbox, CSS Grid, Responsive Design, Cross-Browser Development, UI Design Implementation, Accessibility Basics

Angular Ecosystem: RxJS & Reactive Programming, Reactive Forms, Angular Router, Dependency Injection, Change Detection, Component Architecture & Reusable Components, Angular Material (M2 → M3 / MDC), Angular CDK & Overlays, NgxPermissions, Angular Version Upgrade & Migration, Lazy Loading, Service-Based State Management

Data & Visualization: Live Data-Driven Dashboards, Interactive Charting, D3.js, C3.js, Analytical Reporting UI, Data-Intensive Enterprise Screens, CockroachDB

Authentication & Security: MSAL (v1.x → v5.x), Azure Active Directory / Microsoft Entra ID, SSO, HTTP Interceptors, Token Handling, Role-Based Access Control

Cloud, DevOps & Tooling: Azure DevOps, Azure Pipelines, CI/CD, Docker build configuration, Azure Kubernetes Service (AKS) deployment troubleshooting, Git & Branch Management, Pull-Request Workflows, Code Reviews, npm/Node tooling, VS Code

AI & GenAI: Frontend delivery for AI/ML model features, Azure AI fundamentals, GenAI-assisted development and productivity workflows, prompt-driven code review and refactoring

Quality & Delivery: Debugging & Root-Cause Analysis, Regression Testing, End-to-End & Sanity Validation, Production Support, Technical Documentation, Agile/Sprint Delivery

Additional: SQL, Python, Claude Code, Figma, UI/UX Design Principles, REST API Integration, Clean Code & Maintainable Design Principles

PROFESSIONAL EXPERIENCE

Tata Consultancy Services (TCS)

Systems Engineer — Angular Developer | Bengaluru, India | Oct 2023 – Present

Frontend owner of a data-intensive statistical process control and manufacturing analytics web application delivered for a global FMCG client.

- Angular Version Upgrade (v15 → v21):** Owned and executed the end-to-end framework migration of a production enterprise Angular application across 7 major versions, covering breaking API changes, dependency resolution, and build-system updates — the largest technical initiative on the frontend, delivered without a production outage.
- Angular Material MDC Migration:** Led the legacy Material (M2) to MDC (M3) component migration across all affected feature modules, resolving UI regressions in dialogs, form fields, floating labels, data tables, button-toggles, checkboxes and CDK overlays using component-scoped style overrides and a consolidated global stylesheet, restoring full visual parity ahead of QA sign-off.
- Authentication & Security:** Migrated MSAL from v1.x to v5.x on Azure AD, rebuilding the auth interceptor and account-checkout logic; diagnosed and fixed a first-login timing defect and a post-refresh blank-screen/route-loss bug by persisting the pre-bootstrap route in sessionStorage, eliminating a recurring class of production login failures.
- AI-Enabled Product Features:** Designed and built the complex, high-performance UI for the "Causal and Impact" AI model, translating model outputs into interactive analytical screens that let plant users interpret drivers of process deviation.

- **Data-Driven Dashboards & Reporting:** Built interactive, live data visualization components with D3.js and C3.js integrated with Angular, powering analytical dashboards and reporting views across parameter configuration, SKU, shift/machine and alerting modules.
- **REST API Integration & State:** Implemented frontend integration for backend REST endpoints across multiple feature modules using RxJS operators, typed services, and Reactive Forms, with service-based state management for shared configuration and filter state.
- **Frontend Architecture & Standards:** Established the M2→M3 component migration reference and styling conventions (component-scoped overrides vs. global overlay styles) adopted as the standard pattern for the codebase, reducing repeat regression work across modules.
- **CI/CD & Deployment:** Managed release cycles through Azure DevOps pull requests and Azure Pipelines for Dev and PPD environments; corrected Docker build configuration for lockfile and registry credentials, resolved webpack duplication and peer-dependency build failures, and diagnosed AKS pod crash-loop issues with the platform team.
- **Quality & Production Support:** Performed end-to-end, regression and sanity validation with the QA team prior to each release, and proactively triaged and fixed production defects to maintain application performance and stability.
- **Collaboration & Documentation:** Worked directly with client stakeholders, QA, backend and infrastructure teams to translate business requirements into UI screens; authored the upgrade deployment notification document and a sprint/QA tracking workbook used for release handoff.

CERTIFICATIONS

- Microsoft Certified: Azure Fundamentals (AZ-900)
- Microsoft Certified: Azure AI Fundamentals (AI-900)

AWARDS & RECOGNITION

- **On-the-Spot Award, TCS** — recognized for individual contribution, technical precision, and high-velocity delivery of core application features.
- **Best Team Award (Application Re-Architecture), TCS** — recognized with the engineering team for cross-functional execution during the major architectural redesign of the enterprise platform.

EDUCATION

Bachelor of Technology, Computer Science | Arya College of Engineering & IT, Jaipur | CGPA: 8.4
Senior Secondary (Science, CBSE), St. Anselm's Sr. Sec. School, Bhilwara — 69% | Secondary (CBSE) — CGPA 8.6

INTERESTS

Creative content design and ideation · Reading and writing · Cricket