

# Tarandeep Singh

Software Engineer SMTS | AI & Agentic Systems | Full Stack | Enterprise Platforms

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## SUMMARY

Software Engineer SMTS at Salesforce with 12+ years of experience solving business problems through software, from Android and Java enterprise systems to Salesforce platforms, automation and AI. Currently working in Salesforce's Agentic Transformation team, building AI-first solutions using LLMs, agents, RAG and MCP. Strong end-to-end ownership across problem discovery, solution design, development, deployment and iteration, with a focus on building scalable solutions that connect business needs, software architecture and emerging technologies.

## EXPERIENCE

### Salesforce — Software Engineer SMTS

Apr 2020 – Present | Hyderabad / Remote | Tools & Automation → Agentic Transformation

- **Tools & Automation:** Built web-based tools and platforms used globally by 10K+ Salesforce Sales Engineers, with 10+ tools supporting thousands of Salesforce demo orgs each year.
- Automated repetitive demo-setup workflows including bulk data generation, bulk data updates, org localization and Salesforce configuration; reduced tasks that could take ~45 minutes manually to under 5 minutes.
- Contributed to the platform layer for authentication, authorization, user/org context, tool execution, tracking and analytics. Microservices used PostgreSQL, Redis and Heroku with Salesforce as the system of record and Mixpanel for usage analytics.
- **Agentic Transformation:** Evolved existing automation toward AI-first workflows so users can describe requirements in natural language and AI can execute the required Salesforce data and configuration tasks.
- Built **Smart AI Search** independently from problem discovery to production in 2–3 weeks. Replaced basic text search with semantic retrieval using embeddings, PostgreSQL vector search and RAG, later evolving to a ReAct-based LangChain flow for query refinement and tool use. Beyond finding relevant offerings, it generates contextual summaries and step-by-step implementation recipes to help users act on the results.
- Smart AI Search reached 8K+ users and 10K+ searches in its first two months, helping users discover relevant offerings without needing exact terminology.
- Architected and built an **MCP platform from scratch** that brings internal tools into Claude, Cursor and Slack. Exposes 10–12 tools and is used by 1,000+ users.
- Built Claude Skills to teach Claude specialized, repeatable tasks dynamically, keeping task-specific instructions out of the main context and improving context efficiency for agentic workflows.
- Built single-agent systems that understand requirements and perform actions in Salesforce orgs, moving workflows from click-driven tools toward natural-language execution.
- Tech stack: Python, Node.js, Ruby on Rails, Vue, Angular, React, PostgreSQL, Salesforce, LangChain, LLMs, RAG and MCP.
- Work directly with Sales Engineers, engineering teams and Product stakeholders, lead projects with peers, review and merge production code, and onboard and mentor engineers.

### Salesforce — Demo Engineer

Oct 2017 – Apr 2020 | Hyderabad

- Partnered directly with global Sales Engineers to design and build customer-specific Salesforce demos that translated business requirements, branding and use cases into working solutions helping customers visualize how Salesforce could address their challenges.
- Built customized solutions across Salesforce clouds and industries using Apex, LWC, Aura, Communities, Analytics, Salesforce mobile and platform configuration, combining code and no-code capabilities based on the use case.
- Developed reusable demo assets and components that enabled Demo Engineers and Sales Engineers to discover and install proven solutions without rebuilding them from scratch, improving demo preparation time and reducing engineering dependency.

- Built innovation prototypes across AI, IoT and blockchain, exploring how emerging technologies could connect with Salesforce; developed connected experiences using IoT devices, iBeacons, Android applications and Salesforce, and presented solutions to customers and CTOs.
- Built and published [Trekkr](#), a native Salesforce onboarding application for managing new-hire tasks and collaboration between employees, mentors and managers, and [Lifeblood](#), a Salesforce community application connecting employees who need blood with eligible nearby donors. Both applications were published on Salesforce AppExchange and open-sourced on GitHub.
- Worked closely with Sales Engineers throughout the requirement → solution design → development → demo → feedback cycle, enabling faster POC creation, more reusable demos, reduced manual effort and stronger customer demonstrations.

### **Feuji — Salesforce / Mendix Developer**

Sep 2016 – Oct 2017 | Hyderabad

- Delivered end-to-end Salesforce and Mendix implementations for US clients, from requirements and development through demos, launch, testing and production support.
- Built Salesforce APIs, Apex classes and Aura components and configured permissions, workflows and other platform capabilities.
- Bridged Salesforce and WordPress teams by defining API/data requirements, response formats, caching and lazy-loading approaches for the client-facing experience.
- Worked with Salesforce Community sites and helped maintain a consistent user experience across WordPress and Salesforce; also supported NPSP onboarding for a nonprofit client.
- Built custom Java plugins in Mendix for client-specific business workflows and worked directly with clients on requirements, demos, feedback and reviews.
- Acted as a senior resource for a small team of two, assigning work and reviewing code.

### **EXL — Java Enterprise Developer**

Feb 2015 – Aug 2016 | Noida

- Worked on Care Radius, a US healthcare enterprise product, as part of a modernization effort from a legacy Java stack to Spring and iBatis.
- Developed and migrated application components, integrated with ASP.NET backend services through SOAP APIs, and worked with Oracle databases and SWT-based client applications.
- Collaborated with Java and .NET teams across development, testing, bug fixing, deployment and application support for healthcare workflows.

### **Altametrics — Android Developer**

Aug 2014 – Jan 2015 | Noida

- Built Android applications for US restaurant chains, supporting employee scheduling, shifts, attendance, clock-in/clock-out, breaks and workforce management.
- Developed Android features and supported Java services and integrated third-party services including Google APIs, Facebook, Dropbox and location services.
- Worked with QA and iOS teams to test, refine and release production applications through the Google Play Store.

### **ANR Software — Java / Android Intern**

Feb 2014 – Jul 2014 | Noida

- Worked on Java/J2EE and Android development, building application features and backend services while gaining hands-on experience in production software development.

## **TECHNICAL SKILLS**

- **AI / GenAI:** LLMs, AI Agents, RAG, Vector Search, LangChain, MCP, Embeddings, Prompt Engineering, Claude, Cursor, Claude Skills
- **Languages:** JavaScript, TypeScript, Python, Java, Ruby
- **Frontend:** Vue.js, React, Angular, LWC, Aura
- **Backend & APIs:** Node.js, Express, FastAPI, Spring, REST, GraphQL, SOAP

- **Salesforce:** Apex, LWC, Aura, Salesforce APIs, Communities, Platform Configuration, Salesforce Clouds
- **Integrations & Platforms:** MuleSoft, Slack App Development, Slack APIs, Salesforce Integrations
- **Data & Cloud:** PostgreSQL, MySQL, Redis, AWS (EC2, S3, Lambda), Heroku
- **Mobile & IoT:** Android, IoT, Raspberry Pi, Arduino
- **Tools:** Git, Docker, GitHub

## EDUCATION & PROFESSIONAL DEVELOPMENT

- **IIIT Bengaluru** — Executive Diploma in Machine Learning & AI, specialization in LLM & MLOps | 2026–2027
- **University of California, Riverside** — Design Thinking Executive Program | 2023
- **BITS Pilani** — M.Tech, Software Systems | 2020–2022
- **Shaheed Udham Singh College of Engineering & Technology** — B.Tech, Electronics & Communication Engineering | 2010–2014

## CERTIFICATIONS & SPEAKING

- **Certifications:** 10× Salesforce Certified · Flosum DevOps · 2× Copado DevOps · Oracle AI Associate · cPanel
- **Speaker:** 15+ technical talks across developer and technology communities, including Open Source India, GDG DevFest Goa, IoTShow, React India, Dubai Dreamin, Women in Tech Dreamin, India Dreamin and TrailheadDX India.
- **Community:** Technical blogger and developer-community mentor; shares practical work across software engineering, AI, IoT and emerging technologies.