Sai Mohit Kotta

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Introduction

Aspiring **Software Developer** with focus on **Backend**, **System Design**, **DevOps** and **Applications of ML**.

Education

Shiv Nadar University, Noida   **2024 – 2028**
Bachelor of Technology in Computer Science and Engineering — CGPA: 8.67/10

Work Experience

Salesforce Developer Intern   **May 2025 – July 2025**
Ernst & Young *(under guidance of Mr. Parth Vasani)*   *Pune*
- Developed a **hotel management system Chatbot** using **Agentforce for Service**, enabling intelligent case handling and integrating **cloud-based data retrieval** through Salesforce Data Cloud.
- **Trained** the conversational chatbot using **Agentforce** to fetch and respond to **10+ types of queries** about guest bookings, including stay duration, guest count, and reservation details.
- Completed **Salesforce Administrator - Beginner & Intermediate** Trailhead modules to gain a strong foundation in CRM, workflow automation earning over **15,000+ Trailhead points**.

Projects

Subscription Tracker API — REST Backend | Node.js, Express.js, MongoDB, JWT   `Github`
- Developed a **production-ready REST API** using **clean MVC architecture** for managing users and subscriptions, including lifecycle status (**active/cancelled/expired**) and renewal date handling.
- Implemented **secure authentication/authorization** using **JWT Bearer tokens** with middleware-based protected routes, and ensured password safety via **BCrypt hashing** with schema-level validation.
- Strengthened API reliability with **Arcjet rate limiting + bot protection**, and built automated renewal reminder workflows (**7/5/2/1 days**) using **Upstash QStash + Nodemailer** email notifications.

RAG From Scratch | Python, LangChain, Vector Databases   `Github`
- Built a full-stack **Retrieval-Augmented Generation (RAG)** system from scratch, implementing document ingestion, chunking, embedding, and vector-based retrieval over **10k+ documents**.
- Implemented advanced retrieval strategies including **Multi-Query, RAG-Fusion, HyDE, and query decomposition**, improving retrieval relevance and factual grounding by **35–40%**.
- Designed modular pipelines with **semantic routing, cross-encoder re-ranking, and contextual compression**, reducing token usage by **40%** while preserving answer accuracy.

Open Source

- **Juspay (Blend Design System):** Fixed a production UI bug by preventing non-standard props (tokens) from reaching **DOM elements**, eliminating React unknown-prop warnings and **improving maintainability.**
- **Hacktoberfest :** Super Contributor; delivered **14+ merged PRs** across Juspay, **Alchemist AI**, and **SuperTinyIcons**, including Canvas fingerprinting detection, Python linting CI (Black, isort), optimized SVG assets.

Technical Skills

- **Programming Languages:** C, **C++** (proficient), **Java** (proficient), **Python** (proficient), **SQL** (basics)
- **Web Development:** HTML, CSS, JavaScript, TypeScript, React.js, Next.js, Tailwind CSS, ShadCN/UI, Node.js, Express.js, MongoDB, PostgreSQL, Supabase, Debugging tools, **Stripe** integration
- **Certifications:** Agentforce for Service - **Salesforce** Superbadge, **Oracle** Cloud Infrastructure, Social Network Analysis - **IIT-Delhi**, API Fundamentals - **Postman**
- **Computer Science courses:** Data Structures, Operating Systems, Database Management, Cloud Computing, Computer Architecture, **Object-Oriented Programming**, **System Design**, Social Network Analysis

Achievements

- **Competitive Programming:** Solved **500+** DSA Problems, **Pupil** on Codeforces and **1767 (Top 9%)** LeetCode
- **Hackathons:** Secured **1st position** among **50+ teams** at **Smart India Hackathon SNU'24** (Prize: **INR 15,000**) and **3rd position** among **200+ participants** at **HackenShimtz SNU'25**.
- **Academic:** Awarded **Dean's List** after getting **9.48 SGPA**; ranked in top **5%** in JEE with **100% scholarship in 11th and 12th**, Topped Social Network Analysis course from **IITD**, by getting **top 5% from 3000+ students.**
- **Leadership & Clubs:** International MUN Ambassador & ACM Member co-hosted an event with 80+ attendees.
- **Volunteering:** Played **Piano blindfolded** to **raise awareness** on International Day of the Blind, taught **40+ children** at Aura Foundation: basics of time, location, and English, participated in **blood donation** drives.