Aman Singh Rajput

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Professional Summary

Senior Engineer (~5 yrs) • Java 21 / Spring Boot / Kotlin Microservices • React / Next.js / Angular • Designed scalable APIs, event-driven systems (Kafka, SQS) and SQL/NoSQL data pipelines, with focus on clean architecture, performance, and testability.

Portfolio: https://aman-singh-rajput.vercel.app/

Key Skills & Tech

Java (21), Kotlin (microservices, coroutines), Spring Boot (REST/WebFlux), RESTful APIs, Kafka Streams, AWS S3/SQS/MSK, SQL (Snowflake, PostgreSQL, MySQL), MongoDB, Docker, Git/GitHub Actions CI, Agile/Scrum, Secure Coding (CSP/XSS), Code Reviews, Mentoring, Interviewing candidates, Node.js (basic), GraphQL (Apollo Client, Strawberry), Next.js, React (Vite, Redux, Zustand), Angular 17/18, Reactflow, MUI, Ant Design, ShadCN/UI, NG-Zorro, TypeScript, JavaScript (ES6+), HTML5, CSS3/SCSS, Tailwind, Webpack, Babel, npm/yarn workspaces, Husky, ESLint, Jest, React Testing Library, Cypress, Lighthouse, Core Web Vitals, Chrome DevTools, Vercel/Netlify CI, AI & RAG (LangChain, OpenAI, custom Python library – RAGFuse)

Work Experience

Senior Software Engineer – ShyftLabs   Nov 2022 – Present

Stack: Java 21 + Spring Boot (REST/WebFlux), Kotlin microservices, Kafka Streams, AWS S3/SQS, SQL (Snowflake, PostgreSQL), MongoDB, Docker, GitHub Actions CI, Next.js 13 (app + page routers), React (Vite), Angular 18/17, TypeScript, Reactflow, Ant Design, MUI, ShadCN/UI, Tailwind, Jest, Cypress

- **Data Weaver – low-code ETL canvas:** Collaborated on backend design of **Kotlin + Spring Boot (WebFlux) microservices** and **Kafka event streams**, enabling scalable data ingestion pipelines reduced pipeline setup clicks 35% and achieved 98% first-run success.
- Built **validation and schema-transformation utilities in Kotlin**, improving request handling and ETL workflow reliability.
- **Price Force:** Designed GraphQL + React dashboards for 50k+ SKUs, powered by **Snowflake-backed microservices** delivered sub-200 ms bulk updates and optimized initial JS payload by 45% via dynamic imports.
- **CSV Parsing (Angular + Web Workers):** Engineered client-side chunking for large SKU imports (1MB+ CSV / 50k rows parsed in <350 ms vs >8s earlier).
- **Data Weaver AI Agent (R&D):** Prototyping chat-driven pipeline generator converting plain English to node graphs integrates **LangChain + OpenAI** for schema suggestions.
- **Shopi (Angular 17):** Built SWELL-style storefront with SSR, multi-region inventory sync, CLS <0.05.
- **Storefront (initial project):** Delivered Shopify inventory tracker MVP in 5 weeks became reference repo for onboarding FE hires.
- **Quality & Collaboration:** Authored clean-code & WCAG 2.1 AA guidelines, reviewed 300+ PRs, mentored juniors, and lifted Jest coverage 55% → 85%.

Software Engineer – Accenture (Traveler's Insurance) Jul 2021 – Mar 2022

Stack: Java (Spring Boot microservices – support), Node/Express APIs, SQL (Snowflake, MySQL, Teradata), AWS S3, Jenkins, UrbanCode Deploy (UCD), React + Redux, Splunk JS SDK, Jest, Cypress

- Developed and maintained **backend APIs (Java Spring Boot & Node/Express)** to support analytics dashboards processing **5M+ daily policy records** optimized client rendering with virtual scrolling and code-splitting (cut FCP 25%).
- Partnered with data engineers to **optimize SQL queries and Snowflake views**, reducing latency 20% across ETL pipelines.
- Hardened CI/CD pipelines: integrated **UCD + Jenkins** with AWS S3 artifact management, cutting release rollbacks from 4% → <1%.
- Built and published a reusable **TypeScript charting library (npm + semantic release)** now used by two internal teams, ensuring consistency and modularity.

Junior Developer – Wipro (Wipro Connect HRMS) Sept 2020 – Jul 2021

Stack: Angular 11, Java (support modules), SQL, SCSS, Jasmine/Karma, Git, Agile

- Contributed to **HRMS backend integrations (Java + SQL)** while refactoring Angular components resolved 30+ UI/UX defects and improved Lighthouse accessibility from 68 → 92 (CLS <0.1).
- Delivered an **internal infra-dashboard** that visualized storage-asset health by automating data pulls and validation (SQL + Angular), boosting team productivity by 46%.
- Implemented ESLint + Husky pre-commit hooks, reducing post-merge style defects 70%.
- Supported bi-weekly Agile releases with <1% rollback, coordinating with QA and ensuring unit/integration test coverage.

Education

- **B.tech. Computer Science & Engineering –** Chandigarh University (2016 – 2020) - Mohali, Punjab
- **Relevant Coursework:** Data Structures & Algorithms · Object-Oriented Programming · Database Management Systems · Software Development Life Cycle

Open Source & Projects (OSS) - Github

- **RAGFuse (Ongoing) |** *Python · FastAPI · Hugging Face · LangChain · ChromaDB/Pinecone/Weaviate*
  - → Building an open-source **Retrieval-Augmented Generation (RAG) library** that abstracts document ingestion, embedding, and retrieval for custom Q&A systems.
  - → Modular pipeline with **document processors (Any doc type)**, unified **vector DB interface**, and pluggable **embedding providers (Hugging Face)**.
  - → Provides **Python API, CLI, and REST API** to add/query documents with citations, confidence scores, and performance metrics.
  - → Designed with **plugin-based architecture** for extensibility and tested with **FastAPI endpoints + CI/CD pipeline**.
- **Collaborative Document Editor |** *Angular 18 · EditorJS · TypeScript · SCSS*
  - → Built a **Google Docs/MS Word–style rich-text editor** with real-time tables, images, and block plugins (lists, checkboxes).
  - → Implemented **draft save, version history, and JSON export**, scaling to 50+ concurrent edits without conflicts.
  - → Optimized performance with **lazy-loaded plugins** and dynamic imports, cutting initial bundle size 40%.