

Rajat Kumar Sharma

Software Engineer

✉ merajatsharma@outlook.com ☎ +91-8350864554 🌐 rajatrjsharma 🔄 RajatRjSharma 🔗 Portfolio Website

Full-Stack Software Engineer with 3+ years experience building end-to-end applications for **supply chain** and **healthcare** sectors. Skilled in backend services and **RESTful APIs** using **Python, JVM/Scala, SQL**, and asynchronous task management via **Celery**. Experienced in containerized deployments with **Docker** and creating intuitive, state-managed UIs using **React, Angular, Redux**. Focused on delivering scalable solutions, improving operational efficiency through automation and optimized workflows.

📁 EXPERIENCE

Software Engineer, Avathon (Formerly SparkCognition) 🔗 10-2024 – present | Bangalore, India

- **Core Logistics & Backend Development:** Engineered the backend for a maritime logistics platform using **Python (Django Rest Framework)** and **Scala (Slick)**, delivering **70+ APIs**. These enabled critical functionalities including real-time fleet/shipment management, KPI dashboards, data synchronization, and advanced **Reassign, Reconsign** and **Optimize** workflows.
- **Optimized API Performance:** Reduced API latency by 20-30% through **database-level pagination**, advanced **SQL queries** (**prefetching**, DB-level filtering), and **caching** in **Django**, ensuring high responsiveness under load.
- **Full-Stack Collaboration & UI Contribution:** Collaborated with the front-end team by co-designing **API** contracts for **React/TypeScript** features. Provided targeted contributions and bug fixes to the **UI** codebase, ensuring seamless **end-to-end functionality** and a cohesive user experience improving delivery by 10-20%.
- **Centralized Authentication:** Deployed a security model using **Keycloak (JWTs)** with custom user models, applying **role-based permissions** across Python/Scala microservices to secure operational data.
- **System Responsiveness & Automation:** Leveraged **Celery** for critical **asynchronous tasks** (scheduling, reports, RPA syncs); automated real-time external data integration & synchronization (**APIs, web scraping, cron jobs**).
- **Streamlined Dev & API Stability:** **Dockerized** Python/Django/Scala services to simplify **CI/CD** and ensure reproducible environments; enhanced API stability with **logging** and **error handling**, making deployment and monitoring 1-time tasks.

Software Development Engineer, Buddi.Ai 🔗 05-2021 – 09-2024 | Chennai, India

- **Multi-Factor Authentication System:** Designed, implemented, and **dockerized** an MFA system to enhance security in applications beyond regular login, utilizing **TOTP, HOTP** algorithms, and **email OTP generation**.
- **Revenue Cycle Management System:** Enhanced a Healthcare RCM system by incorporating **React & Kendo components**, integrating **RESTful APIs**, and **managing state** with **Redux**, achieved 70% automation, ensured 95%+ claim accuracy, streamlined billing, reduced coding costs, and ensured security and scalability.
- **Healthcare Workflow Systems:** Implemented WMS(s) with **Play-Scala microservices** and **Angular components** for SMEs to efficiently prepare for client demos, audit medical charts, and export results within 3 to 12 hours.
- **Medical Annotation Tool:** Developed and **dockerized** an Annotation tool using **Angular (frontend)** and **Play-Scala Framework (backend)**, significantly reducing manual work for healthcare SMEs in medical records annotation and management by 80%.

Data Analyst Intern, Forsk Technology 🔗 08-2020 – 10-2020 | Jaipur, India

- **Data Visualization Dashboards:** Built interactive dashboards using **Python, Flask, Dash**, and **Pandas** to analyze **Call Data Records** and **Terrorism Activities**, reducing Excel dependency and accelerating data insights by 2x.

🎓 EDUCATION

Computer Science Engineering (B-Tech), Lovely Professional University 🔗 2018 – 2022 | Jalandhar, India

- **CGPA:** 7.88 | **Specialization:** Machine Learning & Robotic Process Automation.
- Technical Head at Aashary (Student Organisation at LPU).

🧠 SKILLS

Frontend Developer

Angular, React, Redux, Ionic, Design System, Micro-Frontend, Bootstrap, Tailwind, Material UI, Kendo, HTML, CSS

Backend Developer

Django Rest Framework, Celery, Play Framework, SBT, Rest APIs, SQL, JOOQ, Slick, PostgreSQL, NodeJs, Spring Boot, Web Scraping

Programming Languages

C, C++, Java, JavaScript, Typescript, Python, Scala

Other

Git, Docker, AWS, GCP, Keycloak, RPA, Jira