

Rajat Sharma

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Summary

Senior Software Engineer with 8 years of experience building scalable web applications and RESTful APIs in Python, Django, Django REST Framework, and FastAPI. Strong expertise in OOP, system architecture, query optimisation, and performance engineering, with a proven ability to eliminate N+1 query patterns and design efficient database schemas.

Experienced across SaaS and product-based environments, with hands-on work in SQL/NoSQL databases, third-party integrations, RBAC, Celery/Redis async pipelines, and cloud-native solutions on AWS, GCP, and Azure. Familiar with LLMs, prompt engineering, and AI-assisted workflow automation. Track record of leading engineering teams, driving Agile/Scrum delivery, and shipping business-critical features at scale.

Skills

Programming Languages: Python, JavaScript, SQL **Familiar:** Bash, Java, Go

Frameworks & Libraries: Django, DRF, FastAPI, Flask, AngularJS, VueJS, Bootstrap

Databases & Messaging: PostgreSQL, DynamoDB, Redis, OpenSearch, Celery

Cloud: AWS (Lambda, S3, SWF, SES, SNS, RDS, EC2, CloudWatch, Step Functions, CloudFormation), GCP, Azure

DevOps: Docker, Kubernetes, Jenkins, Azure DevOps, Git, CI/CD

AI & GenAI: Prompt Engineering, LLM Integration, GitHub Copilot, Claude API, OpenAI API, AI-assisted skills

Tools & Libraries: Scrapy, BeautifulSoup, Pandas, Selenium, Sentry, Datadog, Jira, PostMan, PgAdmin

Work Experience

SII Group India, Pune

Aug 2025 – Present

Senior Software Engineer

- Led backend development for **Reuters Connect**, a global content distribution platform enabling media organisations to buy, sell, and distribute news content across video, photo, text, and audio formats.
- Designed and implemented scalable microservices and data ingestion pipelines for partner onboarding, content provider integrations, metadata processing, and reliable content delivery.
- Built Python-based services for data migration, backfill operations, content transformation, and bulk processing of legacy and live datasets, ensuring accuracy and consistency at scale.
- Developed and maintained serverless workflows using **AWS Lambda**, **S3**, **DynamoDB**, and **AWS SWF** to automate content processing, partner onboarding, and metadata synchronisation across distributed systems; leveraged **CloudWatch** for log analysis, monitoring, and incident investigation, enabling proactive issue resolution and improved observability.
- Automated partner logo updates, content metadata corrections, and onboarding activities, significantly reducing manual operational effort.
- Built GenAI-powered workflows using **LiteLLM**, **Claude API**, and **GitHub Copilot** to automate content classification, metadata enrichment, and operational tasks, reducing manual engineering effort across the team.
- Automated deployments and scheduled jobs via **Jenkins**, maintaining consistent CI/CD practices across multiple environments.

Quarks Technosoft, Gurgaon

Oct 2024 – Feb 2025

Senior Software Engineer

- Led backend API development for the **Autodesk Testing Hub**, an automation testing platform for Autodesk product smoke testing.
- Designed and implemented a serverless microservices architecture using AWS Lambda, DynamoDB, Step Functions, and CloudFormation for infrastructure provisioning.
- Monitored scheduled test jobs and onboarded new projects onto the platform; used CloudWatch for operational visibility and debugging.
- Streamlined API integrations between services, reducing inter-service communication latency and improving overall reliability.
- Leveraged **GitHub Copilot** to accelerate API development and reduce boilerplate code authoring time across the team.

Senior Software Engineer

- Drove expansion of a real estate property platform from 5 to 10 active U.S. states, doubling operational coverage and contributing to significant revenue growth.
- Led development and maintenance of a Django/DRF web application processing property data from Multiple Listing Sites (MLS) across 10 eastern U.S. states.
- Architected a microservices layer with a Go-based MLS data server, integrating it into the main Django monolith via daily Celery-scheduled background tasks.
- Built REST APIs with DRF and FastAPI for business consumption; used a hybrid Django + VueJS model for frontend development.
- Scraped and ingested property data from Zillow, Realtor, Rent, and other sources using automated importio jobs and custom scrapers.
- Managed a team of 5 developers: conducted PR reviews, handled bi-weekly releases, provided mentorship, and owned technical decision-making and client communication.
- Introduced **GitHub Copilot** across the team to improve development velocity and code quality during feature delivery sprints.

Teamwave, Bangalore

Aug 2020 – Nov 2021

Full Stack Developer

- Contributed as a full-stack developer on the core team building Teamwave, a SaaS productivity suite with CRM, Project Management, and HRM modules.
- Developed the **Products** sub-module (inventory and revenue tracking for orders) and the **Email integration** sub-module (linking email conversations inside the CRM via AWS SES) — both were high-demand customer requests that received strong positive feedback and surpassed competitor offerings.
- Maintained and extended existing CRM features, ensuring reliability and performance of core business workflows.

Grubox, Gurgaon

Dec 2019 – Jul 2020

Full Stack Developer

- Built the Django/DRF backend for the Grubox IoT vending machine app (200+ machines, NCR region) and developed the AngularJS staff dashboard for bulk order placement and inventory monitoring.
- Developed a real-time offers and discount module for the mobile checkout flow, enabling admins to dynamically configure promotions; directly increased daily sales for low-performing products.

Paradise Techsoft, Chandigarh

Dec 2018 – Dec 2019

Full Stack Developer

- Built internal dashboards using Django and Bootstrap; integrated ML models (sklearn, Pandas) into Django applications for data-driven reporting.
- Developed web scraping pipelines using BeautifulSoup and Scrapy; integrated third-party APIs to enhance application data flows.

Sachtech Solutions, Mohali

Jun 2018 – Nov 2018

Python Developer Intern

- Developed internal dashboards and web tools using Django and Bootstrap; integrated third-party APIs and built web scraping solutions using BeautifulSoup.

Projects

- **Reuters Connect (Aug 2025 – Present):** Global news content marketplace where media companies buy and sell content in video, photo, audio, and text formats. Responsible for ingesting news from multiple providers, onboarding/offboarding partners, backfilling and migrating data via Python scripts, and managing deployments through Jenkins. Stack: Python, Django, AWS Lambda, S3, DynamoDB, CloudWatch, AWS SWF.
- **Testing Hub (Oct 2024 – Feb 2025):** Serverless automation testing platform for Autodesk product smoke testing. Built and maintained REST APIs using Python Lambdas, DynamoDB, Step Functions, and CloudWatch; onboarded new projects via AWS CloudFormation. Stack: Python, AWS Lambda, DynamoDB, Step Functions, CloudFormation.
- **Scop (Nov 2021 – Oct 2024):** Real estate property buying platform active in 9 eastern U.S. states. Collected MLS property data, processed it into PostgreSQL, and listed properties via a Django/DRF portal. Business logic calculated yield and maintenance costs to support market team decisions. Integrated a Go-based MLS microservice via daily Celery tasks.

- **Prism (Nov 2021 – Oct 2024):** Large-scale property management platform used by **JLL** for commercial and residential real estate across work order management, inspections, preventive maintenance, reservations, and vendor coordination. Built and maintained scalable DRF APIs; used Celery and Redis for async task processing; monitored production using Sentry and Datadog.
- **Teamwave (Aug 2020 – Nov 2021):** SaaS productivity suite (CRM, PM, HRM) built on DRF with an AngularJS frontend. Developed the Products and Email Integration sub-modules as a core full-stack team member.
- **Grubox (Dec 2019 – Jul 2020):** IoT vending machine platform (200+ machines, NCR) with a Django/DRF backend and an AngularJS staff dashboard for inventory and bulk order management.

Education

Guru Nanak Dev University, Amritsar

Aug 2013 – Jun 2017

B.Tech in Electronics and Communication (ECE)

CGPA: 6.97/10

Awards & Certifications

- **AWS Certified Developer – Associate** (Amazon Web Services)
- Employee of the Quarter – Dec 2018 to Mar 2019
- REST API Development with Django REST Framework – Udemy
- Django Web Development – Udemy