

Soumya Chopra

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EDUCATION

Maharaja Surajmal Institute of Technology, Delhi (2015-2019)- B.Tech - I.T CGPA: 8.85

Bal Bharati Public School, GRH Marg, Delhi CLASS XII: (2014-2015) PERCENTAGE: 84%
CLASS X: (2012-2013) CGPA: 10

EXPERIENCE

Senior Software Engineer at FinSoftAi— (26 Jun 2023-Present)

- Built asynchronous task processing architecture with Celery & Redis, reducing model inference time by 40%.
- Developed REST APIs consumed by React frontend, optimized for low-latency interactions (<300ms).
- Containerized services using Docker, improving developer onboarding time by 50%.
- Worked closely with research teams to integrate ML models into production and deploy scalable model inference pipelines.
- Expanded SSI's data coverage by integrating new sentiment sources such as Reddit, B-luesky, and SEC EDGAR filings — enabling multi-source sentiment fusion and improving signal accuracy for trading insights by 30%

Stack: Python, DRF, Postgresql, OpenSearch, Celery, Redis, Docker swarm, AWS, LLM's, Bedrock etc

Software Engineer at Tophire — (21 Apr 2022- 30 Apr 2023)

- Developed & maintained core backend modules using Django, Celery & Elasticsearch, ensuring 99.9% uptime.
- Built resume search & filtering engine using Elasticsearch, improving recruiter query speed by 60%.
- Implemented Celery-based asynchronous tasks for notification & candidate updates.
- Built a candidate screening feature enabling recruiters to verify, edit and validate profile fields — ensuring up-to-date candidate data and improving hiring decision accuracy by 25%
- Collaborated with product & design teams to improve UX — resulting in 15% higher user engagement.

Stack: Django, DRF, Postgresql, Celery, Rabbitmq, Redis, Elasticsearch, Docker, React etc

Software Engineer at Samsung Research Institute, Delhi — (15 Sep- 13 Apr- 2022)

- Built a web-based data nomenclature & standardization portal using Django and AWS RDS.
- Designed database schemas, stored procedures & triggers for scalable metadata management.
- Migrated legacy SQL queries to AWS RDS, improving reliability & performance.
- Performed query tuning & optimization, reducing execution time by 70%.
- Collaborated with data engineers/business teams to convert requirements into robust DB solutions

Stack: Python, DRF, Mysql, Postgresql, Oracle, Query Optimization, AWS Stored Procedures, Triggers etc

PROJECTS

Employee Churn Prediction:

Predict an employee is likely to leave a job based on characteristics in the dataset like satisfaction level, last evaluation etc.

Candidate Resume Search Web Application:

Convert input string with keywords and logical operator into a sql/mongodb/django orm query and give matched candidates

Discussion Board Web Application:

Forum to Exchange Ideas and Discuss Issues, built using Django

Medical History Web Application:

Web App that maintains medical history of patient using Aadhar Card

SKILLS

Programming Languages: Python, HTML, CSS, JavaScript, Familiar with Java

Frameworks/Libraries: Django, Django Rest Framework, FastAPI, FLask, Pandas, Dask, Matplotlib, Seaborn, Dash, Streamlit, React, Celery, Bootstrap

Databases and Servers: MySQL, PostgreSQL, Oracle, MongoDB, PL/Sql

Tools : Docker, Elasticsearch

Version Control : Git

AI/ Tools: LLM's, Lanchain, LangGraph, RAG's, Agents, Chatgpt, Cursor

OPEN SOURCE CONTRIBUTIONS

Mozilla - Overscripted, Bedrock

GirlScript Summer of Code 2019

EXTRA-CURRICULAR ACTIVITIES

India Linux User Group, Delhi (ILUGD) - Organizer

OpenTech Summit, Delhi- Organizer

IEEE MSIT 2018-19 – General Secretary

Special Interest group (SIG)

IEEE MSIT - Tech Mentor

Summer Project Program 2018

IEEE MSIT- Mentor (Web App. Dev)

Member Rotaract Club of MSIT

2016-2017

Machine Learning Engineer at Omdena — (06 Apr – 12 Jun, 2021) (Part Time)

Quantifying the Impact of Forest Landscape Restoration Through - Predictive Analytics

INTERNSHIPS

Intern at Samsung Research Institute, Delhi — (1 Jul- 31 Aug 2019)
CloudDevops Group- Database Development & Management

Intern at BDO — (18 Jun - 31 Jul, 2018)

Research on Blockchain use cases in different sectors

Intern at Ernst and Young — (02 Jan - 8 Feb, 2018)

Mapping of Privacy laws of different countries against Generally Accepted Privacy Principles (GAPP)