

Suraj Verma

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EDUCATION

Vellore Institute of Technology – Vellore, India

B.Tech in Computer Science Engineering

Jun 2019 – Jun 2023

- Cumulative GPA: 8.3/10

TECHNICAL SKILLS

- **Technologies:** Python, Java, C/C++, JS, Ruby, Rails, REST APIs, AWS, Databricks, Spark, Dask, Flink, Spring Boot, Airflow, Docker, CI/CD, Ansible, Git, CDC, Nginx, React, Node, FastAPI, Kafka, RMQ, JUnit.
- **Databases & Tools:** SQL, Mongo, Postgres, Firebase, Redis, OTel, Grafana, Sentry, Opensearch.

EXPERIENCE

Simpl Pay – Sr. Software Engineer (Bengaluru, India)

July 2023 – Present

- Batch jobs: ETL jobs with Redshift/S3/RMQ/API sink; RDS tables (**200+**) snapshots export job; User credit downgrade job (**30+/day**); Spark & Dask jobs to compact & process **300M+** events data (**1TB+ json/day**).
- Stream Processing (Flink): Rule based credit bumps to **5K+/day** users (Stateless pipeline); Joined data from 2 streams, enriched & published events (**500K+/day**) to Kafka (Stateful - Atleast Once).
- REST APIs: Real-time user approval, pay-in-3 credit recommendation based on underwriting rulesets (**4K+ rpm**), credit upgrade, OTM; Reduced API p99 latency by **45%**; Setup OTel metrics in APIs.
- Migrations: **20+** ETL tables from Redshift/RDS flows to Databricks; **5** DAGs from Airflow 1.x to 2.x; CI/CD pipelines from CircleCI (remote to ECS/EC2 machines via bastion server using Ansible) to Concourse.
- Cost Savings: Cached Redshift table scan over full Spectrum scan (**5K\$/yr**); Delta user attribute updates over full on Clevertap (**12K\$/yr**); Migrated IMS for **100+** workflows from PagerD to ZenD (**50%** saved).
- Others: Databricks connector to run PySpark code in ECS; Enhanced internal data reports.

Amazon – Engineer Intern (Chennai, India | Received FTE)

Jan 2023 – Jun 2023

- Automated over **30** distinct cases for **5** content validator attributes in Kindle services E2E reducing manual effort by **1.5hrs** & improving test coverage by **5.2%**.
- Designed test strategy and performed functional testing for **20** cases in publishing workflow(s). Added test data in automation suite. Identified bugs that could cause regression & impact over **0.2M** workflows/yr.

Simpl Pay – Engineer Intern (Bengaluru, India | Received FTE)

Jan 2022 – Mar 2022 | Jun 2022 – Aug 2022

- Created a DAG to fetch data from Redshift table, call external APIs and load processed data to a new table.
- Added **8** tables in ETL S3 to Redshift workflow in Airflow prod and **1** table in Kafka to Postgres workflow.

PROJECTS

learningSWE – Prod Weather App | [Project Link](#) | Stack: ReactJS, Nginx, FastAPI, APIs, CDC, DBs, Spark

- Built a real-world weather app – integrated frontend, backend, LB, CDC, data streaming, etc.

devs2chat - Realtime Chat Web App | [Project Link](#) | Stack: ReactJS, FirestoreDB, Firebase

- Developed a chat app using React & Firestore to store & retrieve messages; Integrated Google OAuth.

myMusicApp - Music Player Web App | [Project Link](#) | Stack: ReactJS, NodeJS, Spotify's API

- Used Spotify's API to authenticate the users & stream music.

ACHIEVEMENTS

- Achieved **264th** rank out of 21,000 students (**top 2%**) in [GeeksforGeeks Institute Rank](#).
- Secured **213th** rank out of 22,000 participants (**top 1%**) in [Flipkart Grid 2.0 Quiz](#).

OTHERS

- Created a Udemy course titled "[NumPy for Data Science](#)" attracting over **5K+** learners. Blogs at: <https://surajv311.github.io/articles/>.