

Ayush Gupta

Software Engineer - 2

Experience

Compass | *Software Engineer - 2* (Jan 2022-Present)

I work on the Data Ingestion team at Compass. As part of this team I:

- Led Design and migration of existing agent data airflow jobs to a new data pipeline to reduce vendor API calls by 80%.
- Onboard 100+ data feed vendors to the new data pipeline.
- Investigated old incidents to fix Timezone related issues in delta queries.

Arcesium | *Senior Software Engineer* (Jan 2018-Jan 2022)

I worked on multiple applications within the *Transactions and Reference Data Department* at Arcesium. As part of this team I:

- Designed a pluggable attribute system that can be used to add new user defined attributes to any entity across the platform. Used this system to store a Hierarchical Company DB.
- Integrated multiple 3rd Party Data Providers(Pricing, Corporate actions, Securities data) in our app to consume/process data & provide it to downstream consumers.
- Built a self serviceable framework to validate an entity's data with configured rules.
- Added **metric collection and alerting** using Datadog at critical points in multiple applications to identify bottlenecks, SLIs/SLOs, **monitor app health** and gain insight about performance of critical flows throughout apps.
- Implemented a PoC to sync Financial Securities data from OLTP DB to **Snowflake**.
- Built a self-serviceable **ETL framework** using MVEL rule engine to ingest data from multiple vendors with varying formats like EAV, fixed width, APIs, CSV, etc.
- Created a **React** app for managing Corporate Action workflows.
- Instructed in **training sessions** on in-house framework in new joinee bootcamps.

Arcesium | *Intern* (May 2017-July 2017)

- Built infra to create **diffs of excel sheets** of given formats like git diff of 2 versions of the same file.
- Migrated the UI of the application from jQuery to **Web Components** standard. Wrote a [3 part guide](#) to web components as part of this experience.

Dataweave | *Front End Intern* (May 2016 - July 2016)

- Created a UI using AngularJS for managing client dashboard configurations in a multi-tenant SaaS environment.
- Created Prototypes of visualizations like heatmaps, sparklines, treemaps, etc using D3.js and SVGs.

Projects

Web Socket Scaling using Shared Workers

An experiment for reusing the same socket connection across tabs to reduce server overhead using BroadcastChannels and SharedWorkers. [Blog Post](#) and [Related Code](#).

Multiplayer Realtime TicTacToe

An implementation of TicTacToe using Socket.IO and vanilla JS for a [blog post](#).

Education

Thapar University | Patiala, Punjab

B.E. in Computer Engineering(2014-2018)

CGPA: 8.81/10

Personal Info

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Skills

Languages

Java, JavaScript (ES6), Python

Frameworks

Spring, React, ExpressJS

Tools

Docker, Kubernetes, Regex, PostgreSQL, MongoDB, NodeJS

Miscellaneous

REST APIs, TDD, Data Modelling, SQL