

KELSANG TSERING

New York, NY

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[LinkedIn](#) | [Portfolio](#) | [GitHub](#)

SKILLS

Programming Languages: Scala, Python, JavaScript, Ruby, SQL. Elementary in Java.

Technologies: Scio, Luigi, Flyte, Flink, Google Cloud Dataflow, BigQuery, BigTable, Tableau, Google Cloud Storage, React, Node.js, Express.js, Ruby on Rails, Apache Beam, Kubernetes, PostgreSQL, MongoDB, Grafana, Mural.

EXPERIENCE

SPOTIFY

Associate Developer - NYC Technology Fellowship

New York, NY

08/2023 - 02/2024

- Embedded with production-grade teams as a Data Engineer, working on big data processing and analysis
- Created and maintained data pipelines that perform ETL functions and process terabytes of data
- Implemented testing for pipelines that generate data for the Spotify for Artists platform, ensuring data passed validations and checks prior to being viewed for analysis by other teams
- Utilized industry-standard tools such as Google Cloud Dataflow and BigQuery to run pipeline jobs and query existing datasets
- Contributed to production GitHub repositories of data pipelines that multiple squads at Spotify rely on
- Refactored data endpoints and communicated effectively with other downstream squads about the changes made
- Eliminated complexity and enforced a single source of truth in the Spotify for Artists ecosystem by refactoring downstreams to use a newer and improved data source
- Created RFC doc to lay out a plan for refactoring pipelines to use standardized internal tooling
 - Tailored work to focus on improving the efficiency of pipeline runtimes and implementing possible cost savings
 - Focused on improving pipeline efficiency by replacing API calls with a direct query to the PostgreSQL database housing the relevant data needed.

PROJECTS

Memory Hacking Project - Spotify

Full stack application created to help patients suffering from Dementia

- Spotify in-house application that is to be used by caretakers of patients suffering from Dementia, where patient information can be inputted and a curated Spotify playlist is generated, consisting of songs that would invoke nostalgic feelings for the patient
- Created a Scio and Luigi based data pipeline that consumed large datasets, such as user listening behavior, to compute nostalgic filtering logic and provide a candidate table of nostalgic songs based on demographic groupings
- Added unit tests to the data pipeline to ensure that the pipeline behaves as expected
- Communicated and worked with 5 other Spotify fellows to create this new feature from the ground up
- Utilized industry-standard practices, such as git workflows, to ensure work could be parallelized and reviewed
- Created an output dataset for backend developers to query and generate desired playlists for the user.

Rainier

[Live](#) | [GitHub](#)

Full stack clone of Amazon utilizing React, Ruby on Rails, PostgreSQL, and Amazon S3.

- Created a shopping cart system with CRUD functionality, allowing users to add/remove/update items to their cart for purchase
- Developed fully encrypted user authentication using BCrypt, creating a secure method for users to sign up, sign in, and sign out
- Leveraged Amazon S3 to store seed files for products and retrieved them using Rails associations, enabling faster retrieval of product images for listings.

EDUCATION

APP ACADEMY

Full Stack program

New York, NY

01/2023 - 04/2023

- Immersive 16-week full stack software development program with a < 3% acceptance rate
- Collaborated with classmates throughout the course through pair programming exercises, fostering strong communication skills

BARUCH COLLEGE: ZICKLIN SCHOOL OF BUSINESS

Bachelor of Business Administration in Finance, Minor in History

New York, NY

Graduated 06/2021

- GPA: 3.756/4.0 *magna cum laude*
- Honors: Enrolled in Dean's Scholars Program, Dean's List (Awarded 7 times, Oct. 2018 – June 2021), Awarded Full-Tuition Scholarship.