

# KELSANG TSERING

New York, NY

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

## SKILLS

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**Programming Languages:** Scala, Python, JavaScript, Ruby, Java, SQL.

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

## EXPERIENCE

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### SPOTIFY

*Associate Developer - NYC Technology Fellowship*

New York, NY

08/2023 - 02/2024

- Embedded with production 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 every day
- Implemented unit 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 downstream pipelines to use a newer and improved data source
- Authored an 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
  - Mapped the existing data pipeline infrastructure and ecosystem on Mural, allowing future collaborators to easily understand how data was initially transferred and transformed through different workflows.

## PROJECTS

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### Memory Hacking Project - Spotify

*Full stack application created to help patients suffering from Dementia*

- Contributed to building the data infrastructure of this in-house application, where patient information can be provided by a caretaker 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 consumes large datasets, such as user listening behavior, to compute nostalgic filtering logic and outputs a BigQuery dataset consisting of nostalgic songs based on demographic groupings
- Communicated with the backend team to standardize the schema, as they would query the dataset to generate playlists for the user
- Implemented unit testing and increased test coverage in the data pipeline to ensure the workflow behaves as expected.

### 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

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### 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

New York, NY

*Bachelor of Business Administration in Finance, Minor in History*

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.