

KELSANG TSERING

New York, NY

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

SKILLS

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

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

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

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.