

# Alex Brito

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## EDUCATION

### Wentworth Institute of Technology

Bachelor of Science in Computer Science

Boston, MA

May 2022

## EXPERIENCE

### State Street Corporation

Software Developer

Boston, MA

May 2022 – July 2024

- Built and maintained scalable Snowflake data warehouse solutions and ETL/ELT pipelines, processing millions of records daily to support client reporting and analytics.
- Optimized complex Snowflake SQL queries and data models, reducing query execution time by 30–40% and improving overall system performance.
- Automated data ingestion and deployment workflows using Docker, Helm, and Azure Kubernetes Service (AKS), cutting manual release effort by 50%+ and increasing pipeline reliability.
- Implemented data quality validation and governance checks, resolving critical data integrity issues and reducing downstream errors by 25%.

### ASICS Digital

Android Mobile Engineer Intern

Boston, MA

June 2019 – August 2019

- Contributed to features in the ASICS RunKeeper Android app—implementing XML layouts and custom views, and fixing critical image-rendering and metric distance-accuracy issues—and wrote JUnit/Mockito tests validating component REquality and edge cases.

## PROJECTS

### WhatsPackt

Kotlin · Coroutines · Room · Hilt · Firebase · Firestore · Jetpack Compose

March 2025 – July 2025

- Architected a modular Android messaging app using feature-based Clean Architecture with distinct auth, chat, create\_chat, and profile modules for testability and scalability.
- Implemented Firebase Authentication with secure username-based sign-up and login, and integrated Firestore for real-time user and chat data syncing and message delivery.
- Built a responsive, modern UI with Jetpack Compose, optimizing for performance and accessibility.
- Used Room for offline message persistence and caching, and Firebase Cloud Storage to back up media and user profile assets.

### spotify-elt-pipeline

Python · PostgreSQL · dbt · Docker Compose · Metabase · pytest · cron

May 2026 - Present

- Built an end-to-end ELT pipeline that extracts personal Spotify listening data through the Spotify and Last.fm APIs in Python, lands it raw in PostgreSQL, and transforms it in-warehouse with dbt.
- Modeled an analytics-ready star schema (fact\_plays with dim\_track, dim\_artist, dim\_genre, dim\_date, and an artist–genre bridge) using layered dbt models across staging, intermediate, and mart layers.
- Implemented data quality with 39 dbt tests and a pytest suite covering API client units and idempotent loader integration, ensuring data integrity and fully replayable runs.

## TECHNICAL SKILLS

**Languages:** Kotlin, Java, Python, SQL, JavaScript, HTML/CSS, C#

**Android:** Jetpack Compose, Android Jetpack, Coroutines, Room, Hilt, Firebase (Auth, Firestore, Cloud Storage)

**Frameworks:** SpringBoot, React

**Developer Tools:** Android Studio, VS Code, IntelliJ, PyCharm, Git, Docker, Kubernetes, Visual Studio

**AI & LLMs:** ChatGPT, Claude, Prompt Engineering, AI-Assisted Development & Debugging

**Data & Libraries:** Snowflake, PostgreSQL, dbt, pandas, NumPy

## ACHIEVEMENTS

- Completed Boston 2025 Marathon (April 2025), demonstrating endurance, discipline, and goal achievement.