

# Haolong Li

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## PROFESSIONAL SUMMARY

Computational science and engineering master student at EPFL passionate about full-stack development and data science, with a strong foundation in statistics and substantial hands-on experience in Python (NumPy, Pandas, PySpark) and Kotlin (Jetpack Compose) seeking internship opportunities in software engineering and data science roles.

## EDUCATION

### Master of Science, Computational Science and Engineering, EPFL

June 2025

- GPA: 5.13/6.
- Keywords: **Software development, Data Science, Machine Learning.**

### Bachelor of Science, Statistics, Harbin Institute of Technology

June 2022

- GPA: 90.4/100, Ranking: 2/20.
- People's scholarship: HIT grant for outstanding students, awarded to no more than 2 students.

## PROJECTS

### Android developer & Scrum master, Cook4Me [github.com/cook4me/android](https://github.com/cook4me/android)

Feb. 2023 – June 2023

- Built an Android app for people to enhance their food experience with **Kotlin & Jetpack Compose**, contributed 132 commits & 5000+ lines of code with code climate code maintainability level A to the main branch, in the pattern of **MVVM** with the **Scrum** development process.
- Designed **Instrumented tests** for **continuous integration** for each feature, reaching overall test coverage 81%, by working with the **JUnit 4 test framework**.
- Implemented the challenge and the event feature, to allow users to organize cooking challenges and food sharing events, by building respective data classes with relevant methods, making them error-resilient and easy to maintain; and designing display screens, corresponding viewmodels and interactions with **Firestore**.
- Assembled the chat feature and integrated it into other existing features, enabling users to chat, view profiles from chat, and start chats from different entries in the app, by wrapping up and integrating the **stream** chat service.

### Data Analyst, Route Planner [github.com/Tachi-67/Route-Planner](https://github.com/Tachi-67/Route-Planner)

Feb. 2023 – June 2023

- Implemented analysis over the dataset of Switzerland public transportation timetable (~5 million rows) to build a travel route planner, by working with **Python, PySpark, and Hadoop HDFS**.
- Implemented data wrangling from preprocessed data (~250,000 rows), resulting in a station-to-station public transportation map with travel time and duration, by using **Spark RDD MapReduce** and **Spark DataFrame UDFs**.

### Data Analyst, Gender Lens [github.com/epfl-ada/ada-2022-project-alldatapointaccurate](https://github.com/epfl-ada/ada-2022-project-alldatapointaccurate)

Sept. 2023 – Jan. 2023

- Analyzed the [CMU Movie Summary Corpus](https://www.cmu.edu/movie-summary-corpus/) (42,306 rows) to investigate gender inequalities in the movie industry with **Python (Pandas)**.
- Discovered the evolution of gender inequalities by plotting the gender composition over time, analyzed possible effects by proposing a mathematical explanation and presenting the result, that the gender inequalities are shrinking.

### Front-end Developer, Pokemon Data Story [tachi-67.github.io/pokemon-data-story/](https://tachi-67.github.io/pokemon-data-story/)

May 2023 – June 2023

- Implemented a website of 5 pages to illustrate pokemons' characteristics.
- Implemented an interactive bar plot to show pokemon abilities' frequencies by utilizing D3.js and SVG.
- Built a 3D-plot of pokemons' ability, by preprocessing pokemon data with Python then plotting with Plotly.

## SKILLS

**Languages:** English (TOEFL iBT 114), Mandarin (mother tongue).

**Programming:** Python, Kotlin.

**Technologies:** Android, Apache Spark, Apache Hive, Firestore, Jetpack Compose.