

Sebastian Sepulveda

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EDUCATION

University of Chile

Engineering in Computer Science

Santiago

2017 – 2023

University of Chile

M.Sc. Data Science

Santiago

2023 – 2024

Teaching aide in *Information Visualization (Autumn 2022)* *Design and Programming Methodologies (Fall 2020)*, *Algorithms and Data Structures (Spring 2019)*

WORK EXPERIENCE

Data Engineer

Falabella Retail S.A

Aug. 2022 – Present

Santiago, Chile

- Led the data migration for corporate planning processes across Chile, Colombia, and Peru, leveraging BigQuery for queries, Cloud Composer and Airflow for orchestration, Cloud Functions for data transformation, and other Google Cloud Platform tools.
- Automated and optimized data ingestion workflows using Python, enhancing efficiency across company.
- Developed business intelligence visualizations with Data Studio and Looker, enabling data-driven decision-making.
- Designed and implemented a new data transformation pipeline using DBT, replacing an Airflow-only workflow for improved maintainability.
- Established a scalable data infrastructure with separate development and production environments, using Terraform for infrastructure as code.

Junior Backend Developer

Business News Americas

Jan. 2022 – Feb. 2022

Santiago, Chile

- Contributed to the development of an advanced search module for filtering news by text, date, and other attributes, improving client access to relevant content.
- Implemented a high-performance search system using Elasticsearch and Java, optimizing queries for large-scale document retrieval and ensuring scalability.

Data Engineer Intern

Seguros Falabella

Dec. 2020 – Mar. 2021

Santiago, Chile

- Supported the migration of on-premise Oracle data to Google Cloud Platform (GCP), improving analyst accessibility.
- Refactored automated ETL processes from Pentaho to SQL-based pipelines in BigQuery, increasing data processing efficiency.
- Developed a standardized methodology for SQL-based ETL workflows in BigQuery, enabling internal teams to create and maintain processes autonomously.

Web Scraping Developer

Simple S.A

Aug. 2020 – Oct. 2020

Santiago, Chile

- Developed a Python-based web scraping tool (Scrapy) to extract historical news data (2010–present) from Chilean media sources for a Spanish NLP study.
- Automated data extraction and storage using AWS EC2, MySQL and Python streamlining data collection for research purposes.

Software Developer Intern

Finantech

Jan. 2020 – Feb. 2020

Santiago, Chile

- Researched web scraping methodologies for extracting financial data, including tables, text, and links from various sources.
- Developed a Ruby-based web scraping tool to extract and update financial company information, filling missing or outdated records.

PROJECTS

Tukuu | *Node.js, Koa, AWS*

Aug. 2021 – Dic. 2021

- Collaborated in the develop of a backend web application using AWS (Lambda, ApiGateway, DynamoDB), Node JS and Koa framework serving a REST API with React as the frontend

Functional Diversity Support Unit, University of Chile | *Django REST, Docker, Git* Mar 2021 – Jun. 2021

- Developed a backend web application using Django REST serving a API with React as the frontend.
- Collaborated in the design of the data model using django to create and modify tables.

SKILLS

Technical

Languages: Python, Java, C/C++, SQL, Ruby, (Postgres, BigQuery, MySQL), JavaScript, HTML/CSS, PHP, R

Frameworks: Node.js, Django Rest

Clouds: AWS, GCP

Developer Tools: Git, Docker, Google Cloud Platform, Amazon Web Services, Tableau

Machine learning and Artificial Intelligence

Computer Vision: OpenCV, Detectron2, MMDetection, YOLOv8-v5 by Ultralytics, albumentation, Pytorch, Keras (Vision models), Hugging-face (transformers)

Machine Learning: Sklearn, Seaborn, matplotlib, pandas, numpy.

NLP: torchtext, gensim.

Language

English: TOEFL ITP B1

French: DELF B1