

# Federico Ciner

## Software Engineer



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federicociner

## Technical Skills

### Overview

- Agile/Scrum
- Consulting
- Databases
- Data Pipelines
- OOP
- Linux/Unix
- Flask (Python)
- Docker
- DevOps
- Apache Hadoop
- Apache Spark
- Shell

### Languages

*proficient*

Python • SQL

*intermediate*

Java • Scala

*functional*

C • C++ • JavaScript • TeX

## Projects

### AIBNB

*CSE-6242 Data and Visual Analytics*

A web-based tool which uses sentiment analysis and GBMs to predict rental prices.

*Stack:* React, Flask, Postgres.

### SAFE Screen

*CS-6440 Health Informatics*

Web application which generates STD screening recommendations for at-risk female patients.

*Stack:* React, Flask, SQLite, Docker.

## Experience

### Nov 2019 - Present Senior Software Engineer

*Commonwealth Bank of Australia*

Responsible for designing, developing and testing cross-functional frameworks for training, deploying, and monitoring machine learning models on the bank's Hadoop data platform.

- Led the design and development of a Python-based internal configuration automation tool which was used by credit analyst and data scientist teams to generate deployment and configuration artefacts for self-service model deployments. This reduced time to deploy a new machine learning model into production from approximately 6 months down to 2 weeks, representing a 93% reduction in time to deploy
- Implemented a model scoring framework in Scala and Spark which allows data scientists to score models deployed as Python or R packages as REST APIs. The retail bank's internal complaints management team used this framework to deploy NLP and classification models that score over 20,000 customer complaints a day to determine the probability of a complaint being associated with a systemic issue

### Mar 2018 - Nov 2019 Software Engineer

*Commonwealth Bank of Australia*

Embedded in retail and commercial banking division data science teams to provide engineering support and build applications for deploying models into production.

- Developed a machine learning scoring framework that enabled the deployment of XGBoost models measuring loan default risk, which were used to reduce approval times for small business loan applications from 60 days down to same-day lending decisions
- Designed and implemented the authentication back-end for an internal fraud detection and anti-money laundering graph exploration tool built using Flask and D3.js

### May 2014 - Mar 2018 Manager, Data and Analytics

*EY*

Led a small team of analytics practitioners and consultants in the design and implementation of data platforms across a range of clients in the banking and insurance industries.

- Developed a SQL-based reconciliation testing framework on Microsoft Azure to automate and test data migration and digital transformation outcomes for a large Australian superannuation provider
- Managed the development and implementation of a strategic data platform for a large Australian insurer, which consolidated over 30TB of data across over 25 different source systems onto a single platform
- Assisted the data science team of a large Australian insurer in the development and deployment of Docker containers for analytics development environments such as RStudio and Jupyterhub

## Education

### 2016 - 2019 M.S., Computer Science

*Georgia Institute of Technology*

*GPA:* 3.7/4.0

*Concentration:* Machine Learning

*Courses:* Artificial Intelligence, Computer Networks, Computer Vision, Data and Visual Analytics, Graduate Algorithms, Health Informatics, Machine Learning, Machine Learning for Trading, Operating Systems, Software Development Process

### 2008 - 2012 B.S.B.A, Finance, International Business

*University of Richmond*

*GPA:* 3.75/4.00