

Adolfo Villalobos

DATA SCIENTIST · MATHEMATICAL ENGINEER

Santiago, Chile

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"Be the change that you want to see in the world."

Summary

Current Site Reliability Engineer at start-up company Kasa. 7+ years experience specializing in the backend development, infrastructure automation, and computer hacking/security. Super nerd who loves Vim, Linux and OS X and enjoys to customize all of the development environment. Interested in devising a better problem-solving method for challenging tasks, and learning new technologies and tools if the need arises.

Work Experience

Agrosuper S.A.

Santiago, Chile

LEAD DATA SCIENTIST AT JOINT VENTURE WITH INNOVATION GROUP

March. 2019 - June 2020

- Full ownership in developing a data-driven prototype to detect musculoskeletal disorders among slaughterhouse workers.
- Designed the measuring system using low-cost inertial sensors and Bluetooth protocols (2.0 and 4.0).
- Developed an SQL database for real time I/O operations using AWS.
- Successfully implemented a machine learning pipeline based to predict dangerous behavior as a replacement for human screening.
- Results obtained were sent to a peer reviews journal.

Central Bank of Chile

Santiago, Chile

DATA ANALYST INTERNSHIP AT THE FINANCIAL RESEARCH GROUP

Dec. 2017 - March. 2018

- Successfully got acquainted with state-of-the-art research on household debt modeling.
- Implemented a game-theoretic matching algorithm to associate debt records from the SBIF with the Household Financial Survey (EFH).
- Proposed and implemented regression models in R and STATA to associate debt under-reporting by chilean households with debt-type and demographical information.
- Successfully interacted with senior economists, balancing mathematical complexity with interpretability for monetary policy.
- Implemented a program to handle missing and corrupt data from the EFH survey.

Education

PUC (Pontificia Universidad Católica de Chile)

Santiago, Chile

B.S. IN MATHEMATICAL ENGINEERING

Mar. 2013 - Aug. 2018

- Teaching assistant for undergraduate and graduate courses from the Mathematical Engineering programs.