

IACOPO GARIZIO VILLENA

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EDUCATION

University of Washington

Sep 2019 - Mar 2021

Master of Science in Data Science

GPA: 3.97

Capstone: “*Relationship between violence, displacement, and food insecurity*” (Work in partnership with United Nations World Food Programme)

Pontificia Universidad Católica de Chile

Mar 2012 - Jul 2017

Bachelor of Arts in Economics

Rank: 23/273 (top 10 %)

Thesis: “*Ending student discrimination in school admissions: Comparing matching algorithms*”

Pontificia Universidad Católica de Chile

Mar 2012 - Jul 2017

Academic certificate in Computer Science and Informatics

WORK EXPERIENCE

Google LLC

Apr 2021 - Present

Data Scientist, Product Analytics at Geo Data Insights and Analytics

- Propose, analyze, and visualize scalable data quality metrics and give recommendations to stakeholders regarding investments and prioritizations.
- Create models and set up experiments to predict and understand multiple quality metrics.
- Assess the performance of Google APIs to diagnose and recommend actions across teams.
- Design and build data pipelines.

Google LLC

Jun 2020 - Sep 2020

Product Analyst intern at Geodata Insights and Analytics

- Developed a system to identify incorrect bus stops and routes from Google Maps using aggregated user data. Created dashboards with the information and presented the project to multiple audiences.
- Obtained high-level metrics to assess current transit data quality using GoogleSQL and Python.
- Generated visualizations of geospatial data with Python and other internal tools.
- Proposed a method to identify missing bus routes by reinterpreting data as a network and searching for communities.

Confuturo S.A.

Jul 2018 - Sep 2019

Freelance developer

- Developed a software that calculates the monetary reserve the company should have, by simulating life annuities for every customer (270,000 simulations). The developed tool is 13x faster than previous software (achieved through parallel processing and matrix operations).
- Created a more manageable codebase (the new code represents only 28 % of the previous software), while increasing significantly the functionalities.
- The new tool is more detailed and accurate (has a summed error on all customers of ± 0.39 USD).

VTR Globalcom - Part of Liberty Global

Nov 2017 - Jul 2019

Pricing and portfolio analyst

- Determined optimal prices and fees based on statistical models.
- Used models of geospatial statistics to predict competitor's positioning with Python.
- Generated multiple data visualizations to guide senior management's decisions.
- Created predictive models for client leakage.
- Developed multiple web scrapers.

Ingemax Ltda.

Summer 2016

Software engineering intern

- Developed parts of an invoice software that verified client's information using Java.
- Developed web scrapers for marketing usage.

Ingemax Ltda.

Summer 2013

Software engineering intern

- Developed *Quantrix* plugins for Falabella (biggest retailer in the country) using Java.
- Created minimum viable products in *Arduino*.

OTHER FREELANCE POSITIONS

VTR Globalcom - Part of Liberty Global

Aug 2019 - Sep 2019

Freelance developer

- Developed a web scraper that gathered public information about the positioning of competitors.

UC Propone - Pontificia Universidad Católica de Chile

Jul 2017 - Sep 2017

Freelance developer

- Developed a software that simulates kidney transplant waiting lists, in order to propose a more efficient and fair rule of allocation.

VTR Globalcom - Part of Liberty Global

Jul 2017 - Aug 2017

Freelance developer

- Developed a web scraper that gathered strategic information used company-wide.

PUBLICATIONS

Garizio, I. (2019). Py-school-match: Matching algorithms to assign students to schools. *The Journal of Open Source Software*, 4(34), 1111.

DOI: <https://doi.org/10.21105/joss.01111>

SKILLS

LANGUAGES: Python, SQL, \LaTeX , exposure to Java.

SOFTWARE: Git.

SERVICES: Exposure to AWS.

AWARDS

Scholarship "BecasChile Áreas Prioritarias"

2019

- Full-tuition merit-based scholarship for master's degrees
- Youngest scholarship recipient. Ranked 16th out of 207.

Thesis approved with distinction (highest grade)

2017

VOLUNTEER ACTIVITIES

Journal of Open Source Software

2019-Present

Occasional reviewer for papers in Game Theory, Econometrics, and Economics in general

- Conducted 4 peer reviews.

Vineyard Church in Chile

2014-2016

Member of the "National Youth Coordination of the Vineyard Churches in Chile"

- Developed stand alone (Java) and web-based (Python) accreditation software for events.
- Helped coordinate nationwide activities.