



Nicholas Mc-Donnell


Software Engineer


 Santiago, Chile

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 GitHub: N9199  LinkedIn

Skills

 **Languages:** Rust (2 years), Python (6 years), Latex (5 years), ZSH (5 years), Bash (5 years), Java (2 year), SQL (1 year), Godot (1 year), C++ (6 years)

 **Tools:** Git, VSCode, VIM, Linux, Regex

 **Other:** Native Spanish

Experience

Mathematics Faculty (PUC)

Santiago, Chile

Teacher Assistant

March 2018 – Dec 2020

Planned and did classes. I worked hard to include a good variety of questions, in terms of solving technique and difficulty level. In addition. I also added some historical tidbits and bonus questions.

Courses:

- Real Analysis
- Abstract Algebra
- Several Calculus Courses

Computer Science Department (PUC)

Santiago, Chile

Teacher Assistant

March 2021 – Dec 2022

Did classes, and designed homework assignments. I added interesting problems which would show non-obvious applications of problem solving techniques presented in class. I also included fun anecdotes and some historical tidbits.

Courses:

- Cryptography
- Algorithms & Data Structures
- Algorithm Design & Analysis

Millenium Institute Foundational Research on Data

Santiago, Chile

Software Engineer

Sep 2020 – Feb 2022

- Implemented research algorithms about machine learning explainability.
- Tested correctness of said algorithms via custom hand-crafted tests and script made synthetic tests.
- Tested and improved practical performance with synthetic datasets tests.

Education

Pontificia Universidad Católica de Chile (PUC)

Santiago, Chile

Mathematics B.Sc.

2017-2020

Coursework: Data Structures/Algorithms, Automata Theory, Statistics/Probability, Linear Algebra, Abstract Algebra

Activities: Model Theory Seminar Organizer, Mathematics Student Council, Mathematics Statutes Commission

Awards

International Collegiate Programming Contest Latin American Regional 2nd place in Chile (54th in Latin America) 2019

IEEEEXTREME 15.0 26th place

2021