



# Nicholas Mc-Donnell

Software Engineer


 Santiago, Chile


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 GitHub: N9199  LinkedIn



## Skills

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

 **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 technic 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 2021

Did classes, and designed homework assignments. I added interesting problems which would show non-obvious applications of problem solving technics 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

Research Assistant

Sep 2020 – Feb 2022

- Implemented several algorithms in C++ and tested correctness.
- Analysed performance of algorithms with synthetic datasets.



## 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