



# Nicholas Mc-Donnell


## Software Engineer


 Santiago, Chile

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 GitHub: N9199  LinkedIn

## Skills

 **Languages:** Rust (4 years), Python (7 years),  $\text{\LaTeX}$  (5 years), C++ (8 years), Java (2 year), 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 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 – Dec 2022

- Worked in projects about machine learning and interpretability.

### Synopsys

**Santiago, Chile**

*Senior R&D Engineer*

April 2023 – Now

- Working in computational geometry applied to photomask manufactory.

## 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

IEEEEXTREME 16.0 23rd place

2022