

# Alexander López

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## Education

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- Princeton University**, Princeton, NJ 2018 - 2022
- A.B. Diploma, Mathematics (intended), GPA 4.00 out of 4.00
  - **Relevant coursework:** Algorithms and Data Structures, Probability and Stochastic Systems, Honors Analysis, Honors Linear Algebra, Advanced Mechanics, Advanced Electromagnetism, Computational Geometry (current)
- St. Michael's School**, Santo Domingo, Dominican Republic. 2014 - 2018
- salutatorian, GPA 4.12 out of 4.0

## Selected Awards and Honors

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- Shapiro Prize for Academic Excellence** 2019
- for “outstanding academic achievement by Princeton undergraduates in their first or second years”.
- Manfred Pyka Memorial Prize in Physics** 2019
- Awarded by the Princeton Physics Department. “Given to outstanding Physics undergraduates who have shown excellence in coursework and promise in independent research”.

## Work experience

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- Teaching Assistant, Princeton Mathematics Department** 2019 -
- TA for Honors Analysis course
  - Lead weekly problem sessions for about 30 students in the Honors Analysis course. Facilitate discussion about course problem sets, help students understand complex mathematical problems

## Skills

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- Programming**
- **Java** Solved and implemented assignments for Algorithms and Data Structures class, including Red Black BSTs, graph algorithms, and NFAs
  - **Basic Machine Learning** Implemented a basic variable Neural Network for classifying MNIST in Java without assistance of pre-made libraries
  - **GNU/Linux** Installed and maintain ArchLinux as main OS, set up a VPN using SSH and OpenVPN on Ubuntu Server
  - **GitHub** <https://github.com/alexanderlopez>
- Personal**
- Highly organized
  - Goal-oriented
  - Critical thinking
- Languages**
- Spanish native, English fluent

## Other interests and activities

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- **Hiking** Climbed the highest mountain in the Dominican Republic 15+ times.
- **Rock Climbing** Regularly go to the Princeton University climbing wall.
- **Football (Soccer)** Varsity soccer team in high school and recreational.