

Nicolas Lindbloom-Airey

he/him/his

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🐙 github.com/nicolaslindbloomairey

Education

University of California, Santa Cruz

Masters of Arts in Mathematics

Santa Cruz, CA

Sep 2021 - June 2022

University of California, Santa Cruz

Bachelors of Science in Mathematics with Magna Cum Laude

Santa Cruz, CA

Sep 2018 - June 2021

Computer Science Courses

- Data Structures, Algorithms, Analysis of Algorithms (all in C)
- Machine Learning class using TensorFlow, placed highly in in-class image classification competition
- Top student in Analysis of Algorithms and gave a presentation about the FFT

Physics Courses

- Quantum Computing, Mechanics, Wave Motion, Electricity & Magnetism
- Wrote a python script to emulate quantum circuits and verify their correctness

Research Experience

Math Education Research Group

With Dr. Judit Moschkovich

University of California, Santa Cruz, CA

Sep 2019 - Present

- Supporting three PhD candidates by being an extra set of eyes for classroom data, conference presentations, etc.
- Read and discuss past and current research (journal articles, books, presentations)

Work Experience

Maxar Technologies, Space Program Delivery

Returning Software Engineer Intern

Remote, Summer 2021

- CURRENT

Software Engineer Intern

Remote, Summer 2020

- Discovered major vendor error on critical hardware of spacecraft that had to be taken off and fixed
- Wrote over 3k lines of Tcl code to perform negative testing of spacecraft commanding

Jose Valdes Math Institute

Classroom Program Assitant

Stanford University

Summer 2018, Summer 2019

- Taught math lessons to a class of 20 middle-schoolers, some in Spanish
- Chaperoned the class to anywhere we needed to be on Stanford campus

Coding Projects

Pokemon Battle Simulator

🐙 [pokemon-python](https://github.com/nicolaslindbloomairey/pokemon-python)

- 40x faster than leading battle simulator with AI vs AI battles

Taylor Swift Translator

🐙 [taylorswifttranslator](https://github.com/nicolaslindbloomairey/taylor-swift-translator)

- Uses natural language processing API from IBM to map input phrases to the most similar lyric

Self-Hosted Minecraft Server

- Hosted and handled all sys-admin things for 80+ player minecraft server
- Wrote bash scripts to handle backups and had MySQL database for permissions

Skills

- Java, C, Python, Javascript, Tcl, MatLab, Bash, SQL
- TensorFlow, Numpy, Pandas, Flask
- Fluent in Spanish