

# Nicolas Lindbloom-Airey

he/him/his

SF Bay Area, CA

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

## Education

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**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

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**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

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**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

## Coding Projects

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**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/taylorswifttranslator)

- 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

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