Nicolas Lindbloom-Airey

he/him/his

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Objective

Looking for full-time work after I graduate from my Master's in June 2021. I am interested in Ground Software, Flight Software, DCA (Dynamics Control Analysis), and the Guidance and navigation teams.

Education

University of California, Santa Cruz Santa Cruz, CA
Masters of Arts in Mathematics Sep 2021 - June 2022

University of California, Santa Cruz Santa Cruz, CA
Bachelors of Science in Mathematics with Magna Cum Laude 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 University of California, Santa Cruz, CA
With Dr. Judit Moschkovich Sep 2019 - Present

- Supporting three PhD canditates 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

- Built a web tool from scratch to help with the processing and ingestion of redline files for the database
- Learned about LDAP authentication, Object-relational mappers, and web front-end

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

Pokemon Battle Simulator ○ *pokemon-python*

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

Taylor Swift Translator ○ *taylorswifttranslator*

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

Minecraft CPU

- Built an entire CPU in the game minecraft from only NAND gates and D-flip flops
- Wrote an assembler in Java for custom machine language to write a fibonacci number generator program