

# Matthew Craig Lucker

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College: 500 College Avenue, Swarthmore, PA 19081

## EDUCATION

**Swarthmore College**, Swarthmore, PA Expected May 2021  
Bachelor of Arts, Major: Computer Science • Minor: Theater

## RELEVANT COURSEWORK

Data Structures and Algorithms, Introduction to Computer Systems, Algorithms, Calculus, Linear Algebra, Artificial Intelligence, Machine Learning (Spring 2021), Software Engineering (Spring 2021)

## SKILLS

**Programming Languages:** Python, HTML, CSS, C++, C, Java  
**Computer:** Git, TensorFlow, Keras, Anaconda, Photoshop, Illustrator  
**Operating Systems:** Windows 10, Linux  
**General:** Public Speaking, Peer Tutoring, Organization, Communication  
**Languages:** English (Native), French (Working Proficiency)

## WORK EXPERIENCE

**Office of Student Engagement - Virtual/In-Person Residential Assistant** *September 2020 - May 2021*  
*Swarthmore College, PA*

- Provide conflict resolution, educational programming, and emotional support for an online student body spread across the globe.
- Brainstorm, collaborate, and execute virtual events to engage peers and provide communal meeting spaces.
- Support students with difficulty adjusting to college, encourage students to take advantage of college resources, and collaborate with administrators to help students.
- Facilitate resources and information to update residents with dynamic administrative decisions involving the management of academics, COVID-19, and racial and political issues.
- Honed effective communication skills and an ability to work on multiple projects while managing residential issues.

**Coastal IT Consulting, LLC Contract - Geographic Information Systems Support** *June - August 2020*  
*Naples, FL*

- Assist in reimaging desktops and laptops as an independent contractor.
- Install software remotely and manually, provide remote ticket support, and input data.

**AR24 - Software Engineer Intern** *February - March 2020*  
*Strasbourg, France*

- Recreated AR24's online services through a mockup website using API's, HTML, and JavaScript.
- Edited and translated AR24's API handbook.

**Scott Arboretum - Student Garden Coordinator** *May 2018 - December 2019*  
*Swarthmore College, PA*

- Organized and maintained a new summer food gardening program to share free produce with the community.
- Gave 470 lbs. of produce to 410 people over a summer.
- Piloted and oversaw the Student Garden Coordinator program for 2 years with a 75% increase in food production, 110 more recipients, and 60% average harvest weight increase.
- Consistently had twice as many varieties of produce than the average giveaway in the year before.
- Promote and organize events and activities to encourage community involvement and learning in the arboretum during the school year.

## PROJECTS

**2x2 Rubik's Cube Solver | Python** *December 2020 - January 2021*

- Goal: To return an algorithm of at most 11 moves that solves any provided scramble within reasonable computation time.
- Current algorithm in development uses an IDA\* search algorithm.

**Multi-Person Prisoner's Dilemma with Neural Networks | Python** *November - December 2020*

- Goal: To observe AI behavior when given a choice to help all participants or the individual.
- Development of network weights influenced by a Genetic Algorithm.