

# Noah Green

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[Website](#) • [LinkedIn](#) • [GitHub](#)

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## Skills

**Languages:** Python, C/C++, Lua, JavaScript, HTML/CSS, Swift

**Technologies:** PyTorch, NumPy, Linux, Flask, Isaac Gym

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## Work Experience

### Rutgers University

September 2021 – December 2022

Teaching Assistant

New Brunswick, NJ

- Wrote auto-grader scripts for student submissions, saving dozens of hours of grading time
- Instructed students in groups and one-on-one to reinforce course material
- Courses: Systems Programming, Intro to AI, Intro to Discrete Structures I

### The Guardian Life Insurance Company of America

June 2019 – August 2019

iOS Software Development Intern

Holmdel, NJ

- Implemented a new app login flow, working with UI designers and an Agile team
- Created a framework for mocking test data, eliminating a dependency on live data servers
- Automated UI tests in Swift, reducing test time from minutes to seconds

### CybrTrayd

July 2017 – September 2017

Digital Inventory Manager

East Brunswick, NJ

- Automated Excel inventory management with Python scripts, eliminating the need to manually update hundreds of inventory records and saving hours of time daily
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## Projects

### Non-Prehensile Tabletop Manipulation Research for UR5e/2F-85

- Trained a robot arm to push objects through clutter, using deep reinforcement learning and parallel simulations to reduce training time from days to hours
- Used PyTorch to implement kinematics and scene reconstruction with GPU acceleration

### LegoNet: Memory Footprint Reduction Through Block Weight Clustering

- Implemented a novel neural network compression technique, more than doubling the compression ratio compared to state-of-the-art approaches
- Co-authored a research paper published in DASC 2022

### Music Visualizer ([GitHub](#))

- Desktop application for visualizing MIDI input in real time, built in C++
  - Created an interactive GUI in OpenGL with a model-view architecture and custom shaders
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## Education

### Rutgers University

May 2021 – December 2022

Ph.D. Computer Science (incomplete)

New Brunswick, NJ

- Research group: Algorithmic Robotics and Control Lab

### Rutgers University

September 2017 – May 2021

B.S. Computer Science & Mathematics (4.0 GPA)

New Brunswick, NJ