Noah Green

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SKILLSET

- **Languages**: Python, C/C++, Swift, JavaScript, HTML/CSS, Lua
- **Technologies**: PyTorch, NumPy, POSIX shell, Flask, Isaac Gym

EMPLOYMENT

Rutgers University **September 2021 December 2022**
Teaching Assistant New Brunswick, NJ

- Organized and taught supplementary lecture material to ~40 students in weekly recitations
- Held weekly office hours to engage with students one-on-one
- Courses TA'd: Intro to AI, Systems Programming, Intro to Discrete Structures I

The Guardian Life Insurance Company of America **June 2019 August 2019**
Software Development Intern Holmdel, NJ

- Designed an automated UI testing suite in Swift for the company's iOS application, reducing manual testing time
- Created a mock data framework, allowing developers to quickly test on specific data without touching live data servers

CybrTrayd **July 2017 September 2017**
Digital Inventory Manager East Brunswick, NJ

- Automated inventory tracking with Python and Excel to ensure that hundreds of inventory records were consistent across multiple online platforms
- Expanded and oversaw the company's online presence via external vendors (Amazon, eBay, Walmart, Etsy)

EDUCATION

Rutgers University **May 2021 December 2022**
Ph.D. Computer Science (incomplete) New Brunswick, NJ

- Conducted individual research on the application of reinforcement learning to robotic manipulation
- Designed a parallel training and execution pipeline for non-prehensile manipulation of objects in obstacle-cluttered scenes, using PyTorch and Isaac Gym to distribute learning across thousands of GPU-accelerated simulations

Rutgers University **May 2017 May 2021**
B.S. Computer Science & Mathematics New Brunswick, NJ

- Summa cum laude (4.0 GPA)
- Contributed to research on neural network compression, leading to a publication
- Extracurriculars: Peer Tutor, Honors Program Advisory Board, IEEE Student Branch (Robotics & ML/AI divisions)

PROJECTS

DC Deck-Building Game Simulator

- Multiplayer desktop game based on the DC Deck-Building Game by Cryptozoic Inc.
- Desktop GUI implemented in Python and Kivy, featuring a Lua scripting engine for card abilities

MIDI Light Box

- Designed, built, and programmed a light box to display visual effects matching music played on a digital piano
- Programmed an Arduino to receive MIDI inputs from the digital piano, parse music tempo and intensity, and control a series of addressable LEDs soldered into a homemade light box

PUBLICATIONS

- J. Bingham, **N. Green**, and S. Zonouz. "LegoNet: Memory Footprint Reduction Through Block Weight Clustering." *2022 Intl Conf on Dependable, Autonomic, and Secure Computing*, 2022, pp. 1-6