Benny Rubin

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Education

Cornell University | Ithaca, New York | GPA: 4.1 | Fall 2021 – (Expected) Fall 2024

· B.S. Computer Science (College of Engineering)

Honors/Awards:

- 2024 CRA Awards Honorable Mention
- 2/56th place, Cornell Big Red Hacks '22
- Cornell Engineering John McMullen Dean's Scholar (<3%)

Related coursework:

Advanced Programming Languages (PhD) // Advanced Networks (PhD) // Advanced Systems (PhD) // The Structure of Information Networks (PhD) // Advanced Compilers (PhD) // Data Structures and Functional Programming // Operating Systems // Algorithms

Teaching experience:

- TA for Computer Systems Organization and Programming, spring 2022
- TA for Operating Systems, fall 2022, spring 2023, Fall 2023 (Helping to run weekly recitations and create new course work and exam questions)
  - Won a faculty nominated **teaching award**

Experience

Visiting Research Scholar | Max Planck Institute| Summer 2023

· Attended the Cornell, Maryland, Max Planck Pre-doctoral Research School, a week long fully funded program to learn about cutting-edge research in computer science

Researcher | Cornell University | Spring 2023 – current

· Leading a project in Professor Rachit Agarwal's group on host interconnect congestion and memory protection provided by the IOMMU

Researcher | Cornell University | Fall 2022 – current

· Working with Professor Nate Foster in collaboration with groups at Princeton and Stanford on Runtime Verification for Software Defined Networks

- **Paper published in ACM SIGCOMM 2023**

· Gave presentation on my research to Cornell CS faculty and PhD students

Intern | Lawrence Livermore National Lab | Summer 2022

· Built an interactive honeypot environment modeling Industrial Control Systems and analyzed the network traffic for threat detection

· Evaluated mechanisms and effectiveness of popular IoT scanning tools such as Shodan and Censys and competed in red teaming CTF challenges involving forensics, web exploitation, crypto, and pwning

Cybersecurity Researcher | Johns Hopkins University APL | Summer 2019, Summer 2020 – Summer 2021 (Gap year)

· Served as one of the primary contributors to a large software project for fingerprinting and scanning Industrial Control Systems networks and devices.

· Worked on the stress testing team for ACASX, an FAA funded Collision Avoidance System in collaboration with MITLL. Analyzed millions of aircraft encounters using custom built statistical analyses tools (Project won an R&D 100 award)