

KEVIN ZHEN

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EXPERIENCE

Assistant Undergraduate Researcher

Process-Energy-Environmental Systems Engineering (PEESE) Lab

Ithaca, NY

June 2021 – Dec. 2021

- Web-scraped approximately 20,000 polymers from the PolyInfo database using the Selenium package for python, providing the data needed for the machine learning models.

Undergraduate Teacher's Assistant

Cornell Physics Department

Ithaca, NY

Aug. 2021 – Dec. 2021

- Elevated student understanding of Conceptual Physics (Electricity and Magnetism).
- Spearheaded study hall along with 2 Graduate students, working with over 40 students at once.

REAL – Modeling Subteam Member

Cornell University Sustainable Design (CUSD)

Ithaca, NY

Feb. 2021 – June 2021

- Learned OpenModelica within the span of a week due to time constraints on our project.
- Determined optimal conditions for plants to grow based on local climate data by modeling energy and mass flows.
- Coordinated with other subteams on the overall progress of construction of the Greenhouse.

Team Member

Cornell Hacking Club

Ithaca, NY

Sep. 2020 – Dec. 2020

- Instructed 5 beginners to Cybersecurity and taught them basic CTF skills.
- Lead the Web Exploitation section of Vishwa CTF'21, helping Cornell place in the top 100 on the scoreboard.

Cryptography/Web Exploitation Specialist

Cyber Grizzlies

San Ramon, CA

May 2019 – April 2020

- Utilized dozens of tools such as BurpSuite, Wireshark, DirBuster, etc.
- Placed in the top 100 teams in the US during 2019.
- Initialized and debugged routers and other network devices with Packet Tracer, helping our team place in the top 10% of the state for the Cyberpatriot XI Competition.

EDUCATION

Cornell University - B.S. in Computer Science

GPA: 3.79; Dean's List, Spring 2021

Ithaca, NY

Aug. 2020 – May 2024

Prospective Computer Science Student planning to minor in ECE.

Relevant Coursework:

- Object-Oriented Programming and Data Structures, Unix Tools and Scripting, Intermediate Design and Programming for the Web, Computer System Organization and Programming, Introduction to Analysis of Algorithms

PROJECTS

London sewer system (A7) | Java

- Implemented an efficient greedy algorithm to navigate a maze of coins, attempting to modify the heuristic further to optimize the score.

Polymer Webscrape | Python, Selenium, Pandas

- A collection of python scripts that navigated the PolyInfo database, collecting data regarding Polymer properties.

SKILLS

Programming: Java (Proficient), Python (Proficient), Bash (Intermediate), SQL (Beginner), JavaScript (Beginner), HTML/CSS (Beginner)

Soft Skills: Leadership, Decision-making, Team-player, Organized, Responsible, Committed, Capable

Other Skills: Wireshark, Cryptography, Linux, LaTeX, OpenModelica, Selenium (Python), Pandas (Python), GIT