Andre Hu

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EDUCATION

New York University, Tandon School of Engineering   **New York, NY**
B.S. in Computer Science   *Expected May 2023*
- **Cumulative GPA:** 3.62/4.00
- **Relevant Courses:** Computer Architecture, Data Analysis, Data Structures, Discrete Mathematics, Object-Orientated Programming
- **Honors:** Dean's List

Langley High School   **Mclean, VA**
Advanced High School Diploma with Honors   *Aug 2016 – May 2020*
- **GPA:** 3.97/4.00 **| SAT:** 1520 (M:800 W:720) **| SAT II:** Math II – 800 **| AP Courses:** 13, National AP Scholar

ABOUT ME

- **Programming:** Python, C++, Java, HTML, JavaScript, CSS, PHP, SQL, Solidity, Verilog, WebAssembly
- **Frameworks and Tools:** Flask, Docker, AWS, Bootstrap, Git, Ghidra, Wireshark, Markdown
- **Languages:** English (*Native*), Chinese (*Conversational*)

EXPERIENCE

CTFd   **New York, NY**
Software Engineering Intern   *Sep 2020 – Jun 2021*
- Designed and tested a web challenge based on the CapitalOne breach using a simulated AWS EC2 instance
- Assisted with providing customer support during competitions and receiving feedback from participants
- Developed cybersecurity challenges using various technologies such as Docker, Flask, and Bootstrap

Langley High School   **Mclean, VA**
Teaching Assistant   *Sep 2019 – May 2020*
- Planned potential course exam questions and tested procedures for lab experiments
- Assisted students with classwork, labs, and preparation for the AP Physics I exam

PROJECTS

Cyber Security Awareness Week (CSAW)   **New York, NY**
Infrastructure Lead   *Aug 2021 – Oct 2021*
- Hosted Discord bots on AWS to manage event support and filter messages for foul language or challenge answers
- Maintained event challenges using cronjobs to restart services and sustain performance
- Cleaned a GitHub repository fixing compilation errors with Dockerfiles and JSONs

DEFCON Biohacking Village   **Las Vegas, NV**
Developer   *Jun 2020 – Jul 2020*
- Organized volunteer schedule to coordinate shifts helping fix challenges and customer support
- Collaborated with establishing and repairing infrastructure using EC2 instances and S3 buckets
- Contributed to the event with 200+ participants among 150+ teams

LEADERSHIP ACTIVITIES

NYU Division I NCAA Fencing Team   **New York, NY**
Varsity Athlete   *Sep 2020 – Present*
- Competed in NCAA Division I nationwide tournaments and practice five times a week
- Rated A19 by the United States Fencing Association (USFA)

Offensive Security, Incident Response, and Internet Security (OSIRIS) Lab   **New York, NY**
Research Analyst   *Sep 2020 – Present*
- Designed infrastructure layout for cybersecurity events using AWS and virtual communication channels such as Discord
- Participated in weekly cybersecurity competitions focusing on web vulnerabilities and forensic analysis of files
- Researched and investigated topics with other lab members of recent exploits and vulnerabilities