

# Jonathan Wu

jonathanwu@college.harvard.edu • (617) 256-1356 •  [jdabtieu](#)

## EDUCATION

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**Harvard University, Bachelor's in Computer Science** (3.9 GPA) **2023 – Present**  
Relevant Coursework: Systems Programming and Machine Organization, Data Structures and Algorithms

## EXPERIENCE

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**Security Engineer Intern – Tensordock** **Dec 2023 – Jan 2024**

- Identified and dealt with security breaches and vulnerabilities
- Performed system- and org-level security auditing and hardening
- Created and optimized secure automated deployment processes, improving efficiency by over 800%

**Lead Software Engineer, President – X Series CTF** **Aug 2020 – Present**

- Hosted 3 cybersecurity contests garnering over \$60k in prizes, 1000+ teams, and 200k+ submissions
- Held regular workshops teaching cybersecurity topics
- Wrote web, reverse engineering, and binary exploitations of varying difficulties
- Researched Linux exploitation, specifically in understanding and abusing glibc and the ELF format

**Software Engineer – The Harvard Crimson** **Oct 2023 – Present**

- Fixed and enhanced site features and ease of use
- Refactoring 5k+ lines of code to simplify specialized layouts
- Slated to work on a brand new CMS system serving millions of page views daily

## PERSONAL PROJECTS

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### CTFOJ

- Open-source platform for hosting cybersecurity contests and problems with CTFtime integration and custom challenge instancing. Used for hosting [X Series CTF](#) and various other organizations.

### MarkEasy

- Simplifies marking, student reports, and parent/student communication. Also used by students to track their own marks. Contracted for implementation of Gradescope-like features during Summer 2024.

### Yan85 tools

- Reverse engineering, disassembler, assembler, and debugging suite for a custom x86-like instruction set. Created for ASU's CSE 466 online course (<https://pwn.college>)

## HONORS & AWARDS

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- **Nullcon Goa HackIM Capture the Flag:** 3<sup>rd</sup> place out of 393 teams internationally
- **Google Capture the Flag:** 20<sup>th</sup> place out of 400+ teams internationally
- **SIN Physics Contest:** National Champion, Canada
- **Fermat Math Contest:** 1<sup>st</sup> place, Perfect Score, National Champion, Canada
- **Canadian Computing Contest:** Honor Roll (Top 2%)
- **AMC 12:** Certificate of Distinction (Top 2%), 4x AIME Qualifier

## QUALIFICATIONS

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- **Languages:** Java, C/C++, Python, Assembly (x64), Bash, HTML, CSS, JavaScript, SQL, LaTeX
- **Technologies:** Git, Docker, Linux, Windows, Flask, Django, Nginx, Pytest, React.js, qemu, CI/CD