

# Joey Holtzman

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## EDUCATION

### Stanford University

Sep 2023 - Present

B.S. Computer Science

- GPA: 3.99
- Relevant Coursework: Operating Systems Principles, Computer Organization & Systems, Mathematical Foundations of Computing, Programming Abstractions

### Plainfield North High School

Aug 2019 - May 2023

- GPA: 4.68; Top 5% in my class
- Computer Science Club President
- Ranked in the 99% percentile on both the SAT and ACT

## EXPERIENCE

### STEP Intern, Google ChromeOS Inputs

June 2024 - Sep 2024

- Developed a new testing API to measure touchscreen latency regressions on all ChromeOS devices
- Utilized robots that simulate human motion, wrote design docs, and collaborated with engineers on code reviews
- Participated in a week-long exercise with the offensive security team to examine potential attack vectors on internal services using company-wide information on Google Groups.

### Vice President and CPTC/CCDC Competitor, Stanford Applied Cyber

Sep 2023 - Present

- Helping develop tools and write business injects for the CCDC and CPTC competitions
- Learning effective penetration testing and cyber defense strategies

### Data Science Intern, Northwestern University

Jun 2022 - Sep 2023

- Created automated stress tests for Deep Learning models using Kubernetes and Python
- Improved unit and integration testing coverage for the project's infrastructure by 80%

## PROJECTS

### Auto-Southwest Check-In

Sep 2021 - Present

[Project Link](#) | *Python*

- Automatically checks users into their Southwest flights and monitors their flights for lower prices
- Has been used by hundreds of people and has had numerous contributors

### SnakeAI

Apr 2022 - May 2022

[Project Link](#) | *Java*

- Uses machine learning and a genetic algorithm to play Snake
- Implements a neural network without any external libraries

## SKILLS

- **Languages:** Python, Golang, C++, C, Java, Bash, TypeScript, HTML/CSS, x86 assembly
- **Technologies:** Unix, Git, Metasploit, Docker, Kubernetes, Selenium
- **Security-focused:** Penetration Testing, Network Analysis

## AWARDS & CERTIFICATIONS

- **Offensive Security Certified Professional** - OffSec | 2024
- **GIAC Security Essentials** - SANS Institute | 2024
- **GIAC Foundational Cybersecurity Technologies** - SANS Institute | 2023
- **McCormick Engineering Excellence Award in Deep Learning** - Northwestern | 2023

## HOBBIES & INTERESTS

- Hiking, Jump Roping, Calisthenics