

# Joey Holtzman

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## EDUCATION

### Stanford University

Sep 2023 - Present

B.S. Computer Science

- GPA: 3.99
- Relevant Coursework: Computer & Network Security, Computer Networking, Design & Analysis of Algorithms, Operating Systems Design and Implementation

### 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

### Security Engineer Intern, Praetorian

June 2025 - Sep 2025

- Shadowed red team engagements, learning stealth while performing reconnaissance and exploitation
- Designed a resource-efficient scanner to find secrets in Docker images, compatible with all Docker registries without the need for a Docker client
- Developed custom integrations for C2 profiles and payloads to assist the red team
- Created numerous offensive capabilities to integrate common tools (Metasploit, Qualys, etc.) with Chariot, Praetorian's attack surface management platform

### Cybersecurity Evaluation Engineer, OpenAI

Apr 2025 - Present

- Creating novel scenarios to test the performance of models in various offensive security contexts
- Integrating existing benchmarks, including Cybench and BountyBench, into internal infrastructure to test model performance

### 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

### Security Clinic Director, Stanford Applied Cyber

Apr 2025 - Present

- Organizing and helping with security consultations for startups and small businesses at the [Stanford Security Clinic](#)
- Presented at BSidesSF on lessons learned from running the Clinic

### 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.

### 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

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

## AWARDS & CERTIFICATIONS

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- **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

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- Hiking, Jump Roping, Calisthenics