Joey Holtzman

joeyholtzman0507@gmail.com · joeyholtzman.com · github.com/jdholtz · linkedin.com/in/joey-holtzman

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 - Oct 2025**
- Created novel scenarios to test the performance of models in various offensive security contexts
- Integrated 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

- **Languages**: Python, Golang, C++, TypeScript, Bash
- **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