

Lucas Ball

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“New beginnings are often disguised as painful beginnings” -Laozi

Summary

Cybersecurity professional with a strong foundation in systems programming, exploit development, and containerized infrastructure. Experienced in Linux internals, red team, vulnerability analysis, and post-exploitation workflows across both Unix and Windows environments. Passionate about advancing real-world vulnerability research and AI security research as well as mentorship in applied security engineering.

Work Experience

Inversion Research

INFRASTRUCTURE LEAD

Remote, OR

January 2026 - Current

- Designed and built high-security network infrastructure
- Enabled high-security business operations through containerized service infrasctructure

PEAK Compliance

SALES & PROGRAM DEVELOPMENT COORDINATOR

Roseburg, OR

July 2025 - December 2025

- Designed CMMC compliant Role Based Access Control systems
- Conducted preliminary assessments for CMMC compliance
- Consulted clients on achieving CMMC compliance

Oregon State University

GRADUATE TEACHING ASSISTANT & MENTOR

Corvallis, OR

September 2023 - June 2024

- Helped students build their skills in security operations by mentoring them through various security scenarios
- Aided the students in monitoring and securing multiple legitimate clients
- Used DevOps practices to build security infrastructure for the security operations center including in-house production, testing, and development environments

Oregon State University / Nuclear Regulatory Committee

GRADUATE RESEARCH ASSISTANT

Corvallis, OR

April 2023 - June 2023

- Created models for understanding nuclear reactor security
- Analyzed and built threat models of specific nuclear reactors.
- Utilized export restricted software to generate threat models and attack simulations

Oregon State University

GRADUATE TEACHING ASSISTANT

Corvallis, OR

September 2022 - March 2023

- (Operating Systems) Resolved problems with student code using debugging software
- (Cyber Attacks and Defense) Taught students best practices for binary exploitation
- (Cyber Attacks and Defense) Created challenges for students to practice binary exploitation skills

Oregon State University / OPEnS Lab

PROJECT LEAD / PROGRAMMER

Corvallis, OR

November 2020 - January 2022

- Utilized Arduino project boards to create environmental sensing devices
- Used GitHub to organize project management and collaborate to solve software problems on research projects
- Collaborated with project team to solve Hardware/software development problems resulting in the deployment of multiple environmental research projects
- Programmed Ethernet, Cellular, and WiFi network configurations alongside HTTP/SSL communication.
- Configured long distance hardware communications such as LoRa, nRF and freewave radio

Orenco Systems Inc.

ELECTRICAL ENGINEERING INTERN

Sutherlin, OR

June - September 2017, 2018, 2019

- Designed and printed circuit boards using Altium PCB design software
- Successfully developed and implemented a device to test circuit boards for quality control and manufacturing defects
- Designed digital logic programs for custom products

Orenco Systems Inc.

INFORMATION TECHNOLOGY INTERN

Sutherlin, OR

June - September 2015, 2016

- Used integrated software to conduct data entry for products in order for the IT team to track devices
- Tested in-production web pages for quality control and software bugs
- Maintained IT hardware by cleaning and repairing parts

Achievements

2024	1st Place , Pacific Rim Collegiate Cyber Defense Competition	Lacey, WA
2022	Finalist , DEFCON CTF Hacking Competition World Final	Las Vegas, NV
2022	3rd Place , Collegiate Penetration Testing Competition West	Stanford, CA
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2022	5th Place , National Collegiate Cyber Defense Competition	San Antonio, TX
2022	1st Place , Pacific Rim Collegiate Cyber Defense Competition	Lacey, WA
2021	High Performer , NSA Codebreaker Challenge	Online

Education

Oregon State University

M.S. IN COMPUTER SCIENCE

Corvallis, OR

Sept. 2022 - Jun. 2024

Oregon State University

B.S. IN COMPUTER SCIENCE

Corvallis, OR

Sept. 2017 - Jun. 2022

Extracurricular Activity

Oregon State Security Club

LAB MANAGER

Corvallis, OR

2021-2023

- Rebuilt club infrastructure to use on-premise hardware
- Managed 20+ endpoints including AWS servers, virtual machines, and custom routers
- Developed on-demand access capabilities for 50+ students to practice various cybersecurity skills
- Wrote documentation and guides to help future lab managers maintain the infrastructure
- Gave multiple presentations about various topics in cybersecurity and system administration

Oregon State Linux Users Group

VICE PRESIDENT

Corvallis, OR

2022

- Presented various topics to the club to further knowledge on the Linux operating system
- Led multiple discussions on Linux topics including security and automation