

# 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

Remote, OR

INFRASTRUCTURE LEAD

January 2026 - Current

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

### PEAK Compliance

Roseburg, OR

SALES & PROGRAM DEVELOPMENT COORDINATOR

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

Corvallis, OR

GRADUATE TEACHING ASSISTANT & MENTOR

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

Corvallis, OR

GRADUATE RESEARCH ASSISTANT

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

Corvallis, OR

GRADUATE TEACHING ASSISTANT

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

Corvallis, OR

PROJECT LEAD / PROGRAMMER

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

### Orengo Systems Inc.

Sutherlin, OR

ELECTRICAL ENGINEERING INTERN

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

### Orengo Systems Inc.

Sutherlin, OR

INFORMATION TECHNOLOGY INTERN

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

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

## Education

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### 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

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### 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