

JAXON HAWS

WHAT IS CPSEC?

+ GENERAL SECURITY TIPS & ADVICE

HELLO, WORLD!

WHO AM I?

- ▶ 3rd Year Computer Science
- ▶ Clubs:
 - ▶ White Hat: President
 - ▶ CPLUG: President
- ▶ Security Engineering @ Fortune 50
- ▶ Attended DefCon 29 this year
- ▶ Rock climbing



OUR NEW NAME

CAL POLY SECURITY EDUCATION CLUB

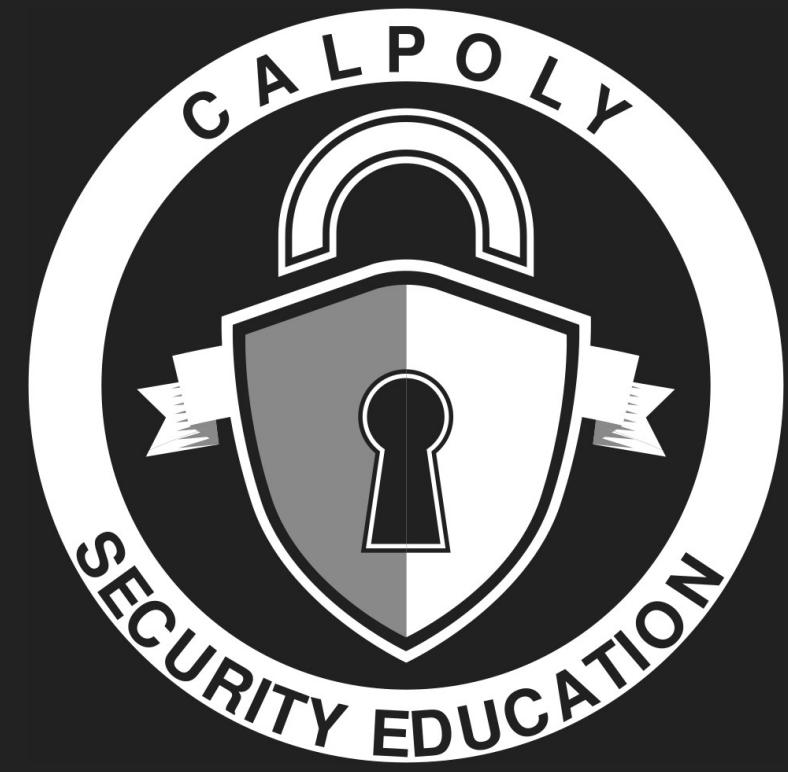
CPSEC

A WHITE HAT [HACKER] IS AN ETHICAL COMPUTER HACKER, OR A COMPUTER SECURITY EXPERT, WHO SPECIALIZES IN PENETRATION TESTING AND OTHER TESTING METHODOLOGIES THAT ENSURE THE SECURITY OF AN ORGANIZATION'S INFORMATION SYSTEMS.

White Hat

TLDR: WE'RE THE SAME CLUB

- ▶ Many Logos
- ▶ Working on transition to new name
- ▶ Same people, same goals
- ▶ Graphic Designers?



DON'T USE PASSWORD FOR YOUR PASSWORD

GENERAL GOALS

- ▶ Help people protect their stuff
- ▶ Create secure systems
- ▶ Teach general security knowledge
- ▶ Low pressure environment



SORRY WE DON'T HAVE MERCH YET...

WHAT DO WE DO?

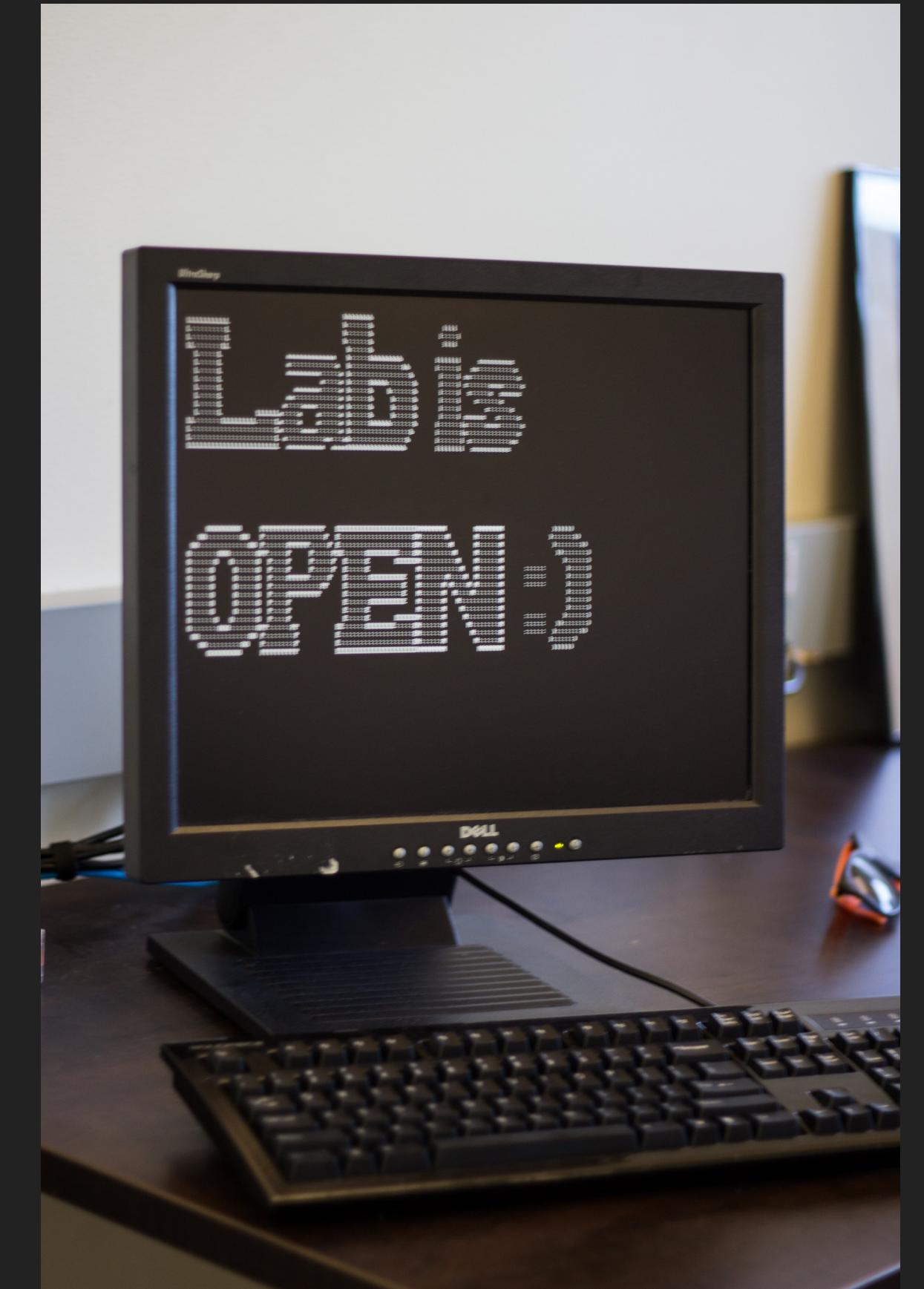
- ▶ Hacking & Shenanigans (In the lab)
- ▶ Education (Technical Talks)
- ▶ Social Events



LAB IS CLOSED... BUT IT MIGHT ACTUALLY BE OPEN

(ETHICAL) HACKING

- ▶ The Lab
- ▶ CTFs
- ▶ Isolated Network
- ▶ Malware Tech Team?



THE E

EDUCATION

- ▶ Technical Talks
- ▶ Tech Teams
 - ▶ Lock Picking
 - ▶ Malware



FUN

- ▶ Previous Events Include:
 - ▶ Donut Walk
 - ▶ Climbing at the Pad
 - ▶ Beach Day
 - ▶ Board Game Night
 - ▶ Hanging out in the Lab



GENERAL SECURITY TIPS

TIP #1:
PASSWORDS

YOU HAVE NO EXCUSE NOT TO

GET A PASSWORD MANAGER

- ▶ Recommendations:
 - ▶ Use a very strong password you can remember for your vault
 - ▶ Let the password manager generate the rest of your passwords
 - ▶ Download the App on your phone (and browser extension)and give it permissions to autofill
 - ▶ Bitwarden
- ▶ Cal Poly students get LastPass Premium for FREE (all 4 years)



TIP #2:
PRIVACY

OPT OUT OF THE DIRECTORY

- ▶ Anyone with a portal login can look you up in the directory
- ▶ Information includes:
 - ▶ name
 - ▶ email
 - ▶ phone number
 - ▶ major



Home

Personal Info

Library

ASI

COVID-19 Info

Add Tab

Customize

My Apps



Cal Poly Canvas



Student Center



Email & Calendar



Cal Poly OneDrive



Mustang|OBS



Health and Counseling Portal



COVID-19 Self-Screener



Electronic Workflow



Course Materials



Technical Service Request



PolyCard Services



Cal Poly Scholarships



University Housing



Skillsoft for Students



Facilities Management



Cal Poly Career Connections



Cal Poly Now



Pivot Funding Search

Edit Favorites

My Classes

Fall Quarter 2021

View Other Quarters

Request A Study Session

Class List

Calendar

CPE 321-03

MWF 10:10 AM to 11:00 AM

Canvas

Introduction to Computer Security

CPE 321-04 LAB

MWF 11:10 AM to 12:00 PM

Canvas

Introduction to Computer Security

CSC 524-02

TR 12:10 PM to 01:30 PM

Canvas

System Security

CSC 524-03 LAB

TR 01:40 PM to 03:00 PM

Canvas

System Security

HLTH 255-03

Unknown schedule

Canvas

Personal Health: A Multicultural Approach

KINE 154-02

MW 09:10 AM to 10:00 AM

Canvas

Weight Training

PHYS 133-56

MWF 02:10 PM to 03:00 PM

Canvas

General Physics III

PHYS 133-57 LAB

MWF 03:10 PM to 04:00 PM

Canvas

General Physics III

▶ 2 Dropped

Class data and Canvas links may take up to 24 hours to update. Visit [Canvas Home](#) for all of your Canvas courses.

Directory Information

Search this directory for Cal Poly student, faculty, and staff, department, club, and unit information. Any use of this directory must comply with applicable University policies.

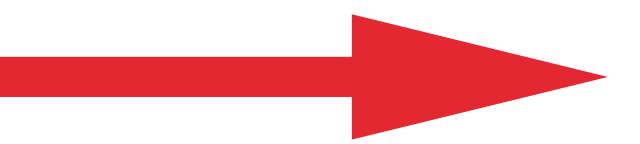
Simple Search

Switch to Advanced Search

Category

All

Search



0

Welcome Jaxon Payne Haws | Sign Out

Flex Your Right Today



Ensure your voice is heard—register to vote!

Help celebrate National Voter Registration Day by joining the Flex Your Right movement with ASI Student Government and your fellow Mustangs!

Help Cal Poly stay in the lead by having the most registered student voters again this year. #FlexYourRight at [bit.ly/CPVotes2021-22](#) and register to vote to ensure your voice is heard in local, state, and federal elections!

Learn More

Campus Announcements

System Status

CMS PeopleSoft Outage 9/29 8pm - midnight

Sep 29, 2021 4:00

CMS PeopleSoft Student & HR Administration Production Maintenance Outage: PM

Wednesday 8pm - midnight



Jaxon Haws

go to ...

Addresses Names Phone Numbers Emergency Contacts Missing Person Contacts **FERPA Restrictions** Identity

FERPA Restrictions

Under the regulations defined by the Family Education Rights and Privacy Act, you have chosen to restrict the following information from release.

Please note that unless otherwise indicated, this information will not be made available to any oral or written request nor will it appear in any publication.

FERPA Restrictions

Directory Information
Locator Information only

[Edit FERPA/Directory Restrictions](#)



The screenshot shows the 'Edit FERPA/Directory Restrictions' page. At the top, there are two buttons: 'Restrict All Fields' and 'Release All Restrictions'. Below them is a section titled 'Restriction Categories' with a sub-section for 'FERPA Restrictions'. This section contains two buttons: 'Restrict All' and 'Release All'. Under the 'Restrict' heading, there are two checked checkboxes: 'Directory Information' (with 'Release to Publication' option) and 'Locator Information only' (with 'Release to Publication' option). At the bottom of the page are 'Save' and 'Return to FERPA Restrictions Summary' buttons.

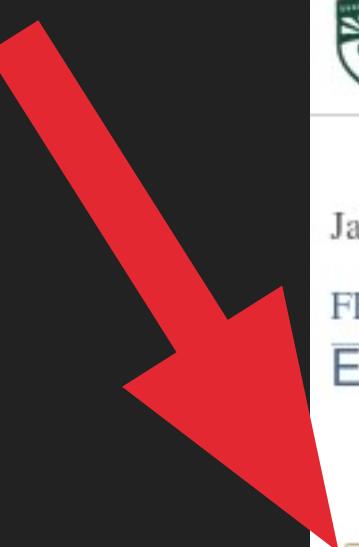
FERPA Restrictions

Restrict All Release All

Restrict

| | | |
|-------------------------------------|--------------------------|------------------------|
| <input checked="" type="checkbox"/> | Directory Information | Release to Publication |
| <input checked="" type="checkbox"/> | Locator Information only | Release to Publication |

Save Return to FERPA Restrictions Summary

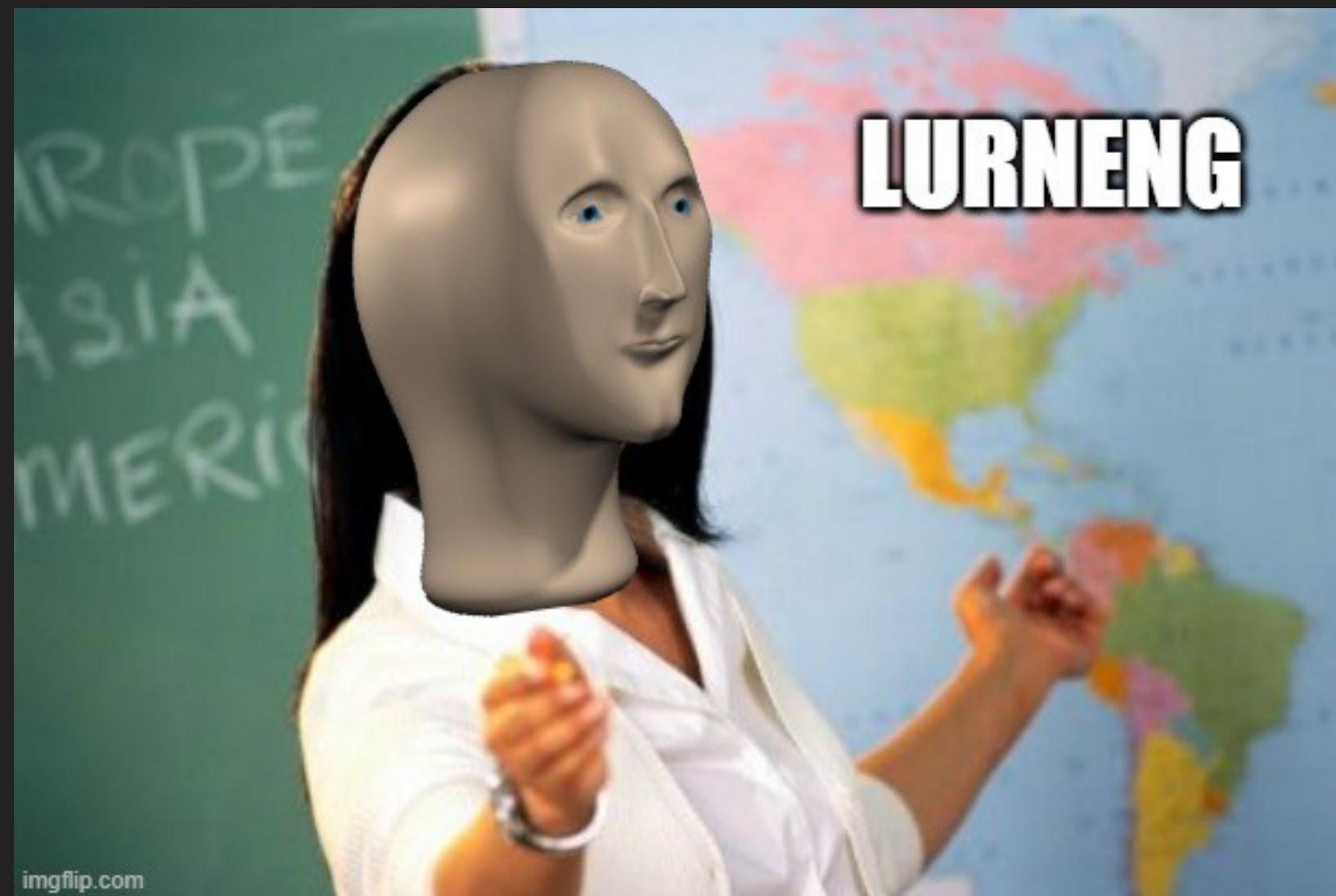


**TIP #3:
CLASSES**

THE SECURITY PROFESSORS ARE THE BEST

TAKE SECURITY CLASSES

- ▶ CPE 321: Intro to Security
- ▶ CSC 323: Cryptography Engineering
- ▶ CPE 422: Network Security
- ▶ CSC 424: Software Security
- ▶ CPE 425: Wireless Security
- ▶ CPE 426: Introduction to Hardware Security
- ▶ CSC 429: Current Topics in Computer Security
- ▶ CSC 521: Computer Security (Grad Class)
- ▶ CSC 524: System Security (Grad Class)



**TIP #4:
CONCENTRATION**

PRIVACY AND SECURITY CONCENTRATION

► New for 2021-22 Catalog

Privacy and Security Concentration

| | | |
|---|--|----|
| <u>CPE 464</u> | Introduction to Computer Networks | 4 |
| Select from the following: ¹ | | 12 |
| <u>CPE/CSC 422</u> | Network Security | |
| <u>CPE 426</u> | Introduction to Hardware Security | |
| <u>CSC 323</u> | Cryptography Engineering | |
| <u>CSC 325</u> | Introduction to Privacy: Policy and Technology | |
| <u>CSC 424</u> | Software Security | |
| <u>CSC 425</u> | Wireless Security | |
| <u>CSC 429</u> | Current Topics in Computer Security | |
| <u>CSC 521</u> | Computer Security | |
| <u>CSC 524</u> | System Security | |
| Select from the following: ^{1,2} | | 8 |
| <u>CPE/CSC 422</u> | Network Security | |
| <u>CPE 426</u> | Introduction to Hardware Security | |
| <u>CPE/CSC 431</u> | Compiler Construction | |
| <u>CPE/CSC 454</u> | Implementation of Operating Systems | |
| <u>CPE 465</u> | Advanced Computer Networks | |
| <u>CSC 323</u> | Cryptography Engineering | |
| <u>CSC 325</u> | Introduction to Privacy: Policy and Technology | |
| <u>CSC 400</u> | Special Problems ² | |
| <u>CSC 424</u> | Software Security | |
| <u>CSC 425</u> | Wireless Security | |
| <u>CSC 429</u> | Current Topics in Computer Security | |
| <u>CSC 521</u> | Computer Security | |
| <u>CSC 524</u> | System Security | |
| <u>MATH 341</u> | Theory of Numbers | |
| <u>MATH 437</u> | Game Theory | |
| <u>MATH 451</u> | Numerical Analysis I | |
| <u>MATH 453</u> | Numerical Optimization | |

TIP #5:
CONFERENCE

10/10 WOULD RECOMMEND

CONFERENCES

- ▶ DEF CON
- ▶ Local BSides Chapter
- ▶ Grace Hopper
- ▶ WiCyS
- ▶ Other Local Conferences

