Day One Orientation

Presented by William Glover

Fullstack Academy

Plan for this Evening

- Staff Introductions
- Motivation – Why are you here?
  - Ice Breaker
- What is a Student Success Manager (SSM)
- Instructional Team Roles
- What is a Bootcamp
- Flipped Classroom Model
- Building a Supportive Environment
- Support Options
- Program dates, times, holidays
- Compliance
- Drop/Transfer Policy

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Instructional Team Introductions

- **William Glover** - Student Success Manager
- **Brendan Meyer & Jennifer Payano** - Instructors
- **Alex Harris, Cutler Simpson, Frank Taylor & Hannah Wroblewski**: mentoring staff
- **Parrish Jefferson** - regional director

What is a Bootcamp?

An accelerated, intensive, and rigorous course of training. Thus, we say it is a fit for candidates who are eager to learn, passionate about technology and its influence in the world around them are great at creative problem solving.

Motivation

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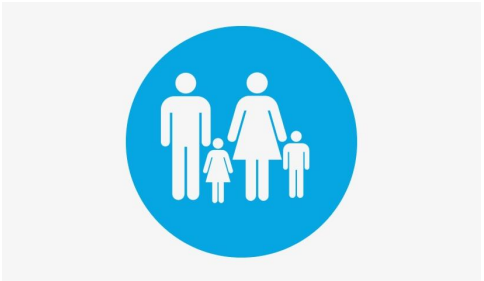
What is your why?

- What motivated you to do this bootcamp?
  - Increased job prospects/financial well-being/providing for family
  - Making the world a better/safer place



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What is our why?

- Transform individuals, communities, and economies by teaching technologies that power the future.
- We want to make you happy, but we are here to make you better
- We strive to accelerate meaningful and enduring diversity and inclusion in tech

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Motivation, how we use it?

- Clear purpose/setting goals
- Clear instructions
- Reminders when things get difficult

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Staff Roles & Responsibilities

What does your Student Success Manager do?

Your SSM is a part of your support network. We work alongside your IA & instructor from start to finish of the bootcamp!

When you'll hear from me:

- general check in to see how I can support you
- grade distributions via email
- follow up if there's a low grade/late project submission reported
- student conduct & attendance issues

What I can help you with:

- getting back on track with missing/late coursework
- issues with IA's & Instructors
- cultivating time management skills
- support on how to combat imposter syndrome

Communication is key! Keep me in the loop if there's an issue in class. I can't help unless I'm informed of what's going on. I'm an advocate for your success & completion of this program!

Instructional Team Roles and Responsibilities

- Lead and/or assist instruction on content and technology topics and tools of the trade
- Work with students 1-on-1, in pairs and in groups
- Create a positive, professional and inclusive learning environment and culture for our students
- Facilitate a dynamic and collaborative classroom community
- Track student academic performance and engage with students to help them successfully complete their course
- Hold office hours sessions and/or facilitate group study sessions with students outside normally scheduled office hours
- Provide feedback on the curriculum, grade assessments/projects, and provide 1-on-1 feedback to students
- Assist in the project management of student projects

Student Learning Responsibility & Keys to Success

- Be patient with yourself
- Be here on time & ready to learn
- Stay current with the material
- Study outside of class
- Be helpful and resourceful
- Don’t be afraid to ask questions
- Take care of your health!

Student Learning Responsibility & Keys to Success (cont.)

- Model behaviors and attitudes that promote learning
- Provide feedback when asked
- Define your goals for learning
- Don’t over plan
- Focus on learning, not work
- Take responsibility for the learning of your peers

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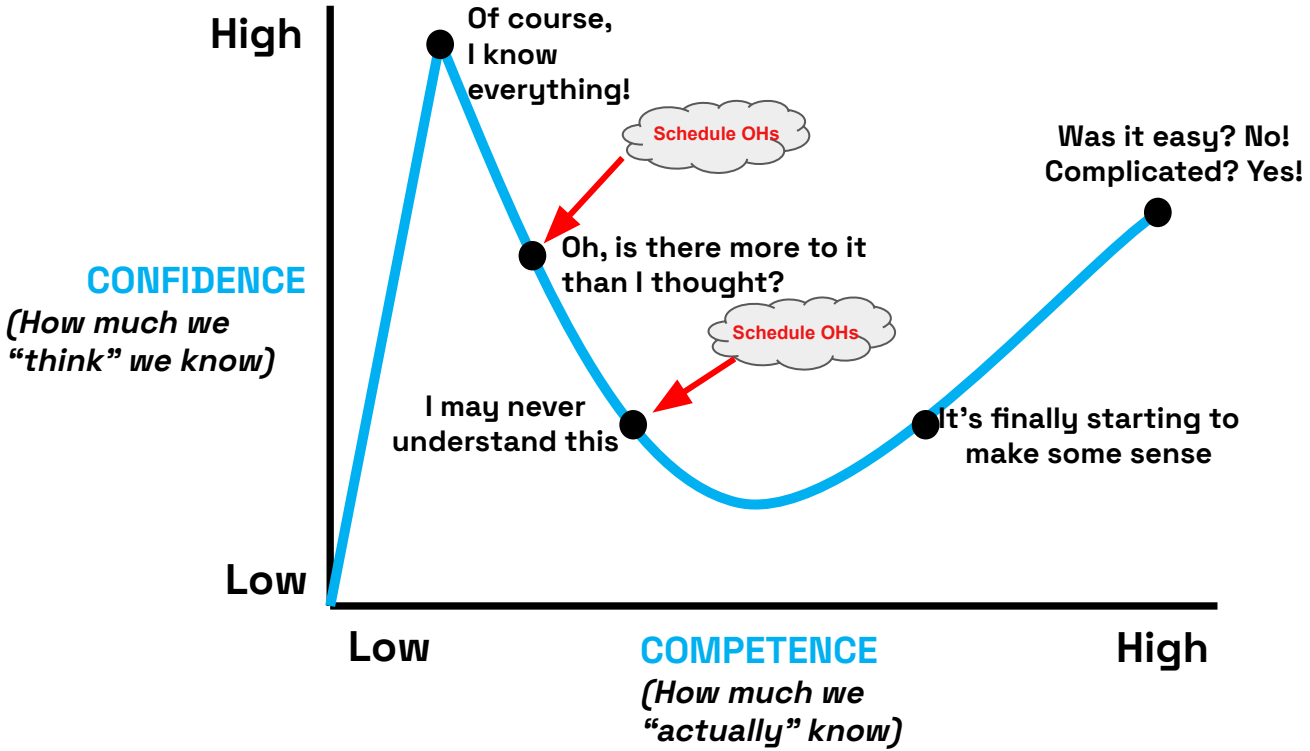
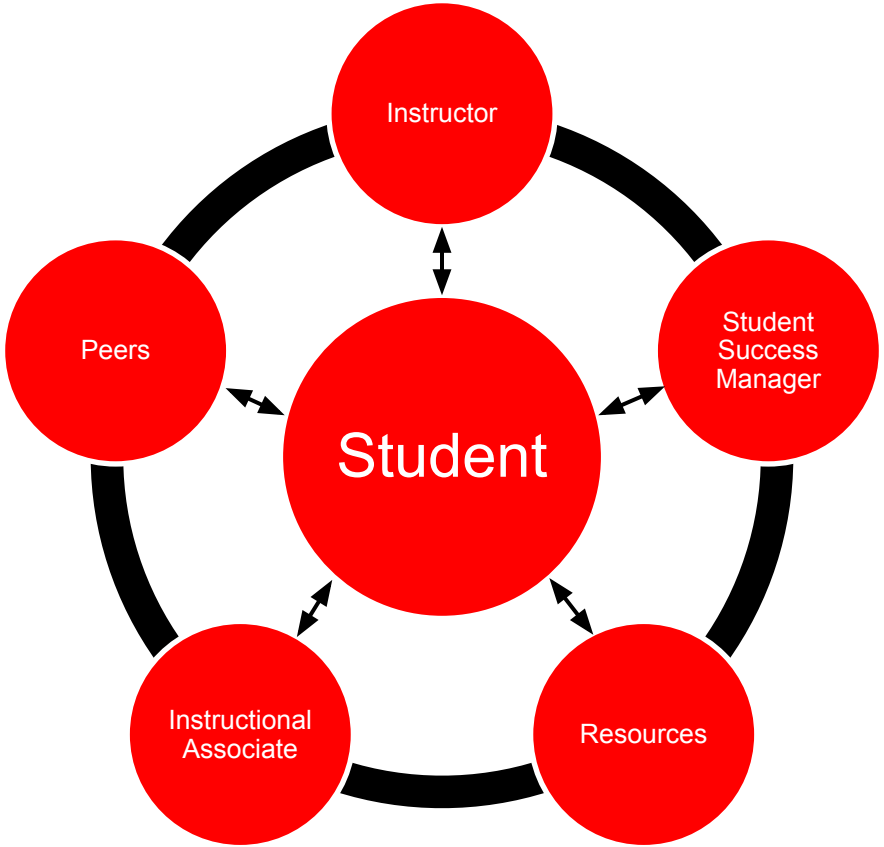
The Dunning Kruger Effect



Community Learning Environment



Flipped Classroom

Flipped Classroom

Flipped

Teacher instructs lesson at home (video / podcast / book / website

Students work in class

- Deeper understanding of concepts, applications, and connections to content are made.
- Students receive support as needed
- Students work together in pairs and groups

Traditional

Teacher instructs

Students take notes

Students follow guided instruction

Teacher gives assessment

Students have homework

Flipped Classroom Model

The What:

The flipped classroom model is a model in which, instructors are having students engage with new material and concepts, prior to lecturing on them.

The Why:

When using this model, students experience:

- Greater learner satisfaction
- A greater degree of confidence
- Promoted creativity
- Highly developed problem-solving skills

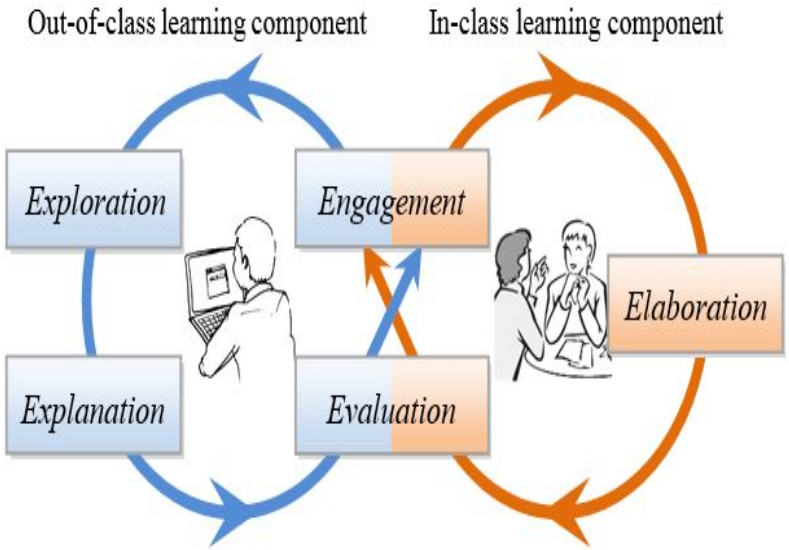
Flipped Classroom Model

How can I be successful? - Self Regulated Learning!

The flipped classroom model requires students to take on a self-regulated learning approach. This approach refers to a student's ability to understand, control, and monitor progress within their learning environment.

Flipped Classroom Model & Self Regulated Learning

- Self-regulated learning and can be helpful in succeeding a flipped classroom.
- When outside of the classroom, work on goal setting, refining learning and productivity approaches and working towards solutions.
- When operating inside the classroom use your educational ladder to engage and gain insights towards goals/tasks.



Becoming a Self Regulated Learning

- **Define the Task:** Start by sizing up the nature and demands of a task
  - Time demands, needed resources, learning approach
- **Focusing Attention and Planning:** Attending to the task at hand and generating a plan
  - Planning steps, review rubric/expectations
- **Strategy:** Create engagement and implement plan
- **Self-Evaluating and Error Correcting:** Evaluating performance, catching and correcting errors
  - Review feedback, bring questions to instructor or education community
- **Coping and Self-Control:** Facing difficulties or failures and dealing with emotions that accompany them
  - Know where to locate educational and student supports
- **Self-Reinforcement:** Providing reward
  - Take a Break!

Time Management

- Plan
- Prioritize
- Schedule

PLAN

Organize Your Week

Utilize Google Sheets, Microsoft Excel, Google Cal or a weekly planner to organize your schedule and assignments for each day/week.

Schedule Study Time

Just as you would add class or work to your schedule, designate time for studying. Be sure to leave enough time complete your assignments

Plan for Crunch Times

Look ahead and anticipate deadlines and foreseeable high stress periods such as Achievements for Cyber or Synthesis projects for Web Development as well as Capstone Projects. Plan for extra prep and study time during these peak times.

PRIORITIZE

Figure Out Your Busy Times

Study difficult subjects first and work on the challenging assignment at times when you feel your best. Save pleasant and easier tasks for less productive times of the day.

Break Up Tasks

Divide large tasks into smaller more manageable pieces. Focus on a small task and complete one task at a time. This will make a big project feel more manageable and enhance momentum.

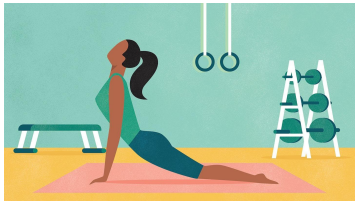
Make a To-Do List

Ensure higher Priority items are completed first

SCHEDULE

Sleep

Get at least 7-8 hours of uninterrupted sleep every night. Establish a sleep schedule, even on the weekends and stick to it.



Exercise

Regular physical exercise improves sleep which increases alertness, reduces stress, boosts memory and promotes overall health.

Office Hours

Office Hours

- Every week your Instructional Associate will host one-on-one office hours
- Available by appointment only - can be scheduled via our LMS
- Slots are 20-30 minutes each

Value of Office Hours

- Dedicated time to better understand your class content and your instructional team's expectations, which has a significant impact on your academic success.
- Discuss study tips and strategies
- Prepare for/review a project or assessment
- Work through practice problems
- Seek professional advice
- Establishes a relationship with your IA and promotes mutual respect and understanding
- Fosters motivation

Managing Office Hours

- Be prepared from the beginning of the meeting.
- Send your questions to your IA ahead of time via Slack
- When sending a question or requesting help, instead of saying “my code doesn’t work” or “I need help”, please describe:
- What do/did you expect to happen?
- What is currently happening?
- Include a copy of the code in question and any errors that are occurring
- Make sure to read any error messages / error logs / error codes and Google them to find out what they mean and seek possible solutions on your own beforehand.

Office Hour Etiquette

Students should always strive in good faith to keep their office hour appointments barring emergencies. Scheduling a session and simply not attending is not only disrespectful to your Instructional Associate's time, but it prevents a fellow student from attending an office hour session that was previously filled.

Program Policies

Cyber- Quizzes, Assessments, and Achievements

Quizzes: 5 short quizzes taken outside class over the first 7 weeks of class, due on Sundays

- Covers Foundations home-study material

Assessments:

- Linux Assessment in-class
- Python Assessment in-class
- Covers foundations in-class material

Achievements

- End of each phase: Essentials, Red Team, Blue Team

Note: Reminders for quizzes, assessments and achievements will be sent throughout the course

Web- Project Based Curriculum

The main unit of progress in this course is a project.

- Tutorial Projects
- Guided Projects
- Synthesis Projects
- Capstone Project

Incompleteness should not prevent submission by the due date.

Note: Students must use programming technologies/approaches taught in the curriculum to complete projects, otherwise the project may be deemed incomplete.

Building a Supportive Environment

- **Be mindful of unconscious bias**
  - (n) Relates to the attitudes, beliefs, and opinions about people (or things) that operate outside our awareness, yet they have a significant impact in determining our judgement and our behavior towards other people (or things).
- **Subtle (and not-so-subtle) “isms”**
  - E.g. Sexism, Racism, Ageism
- **Incident Report Form**
- **Maintain Professionalism**

Drops and Transfers

- **Drop with Full Refund Deadline: Tuesday, February 22, 2022**
  a. As long as a Slack message/email is received by this day (even after hours) the request will be granted and processed
  b. After this day, students may withdraw but are not eligible for a refund
- **Free Transfer Request Deadline: Tuesday, February 22, 2022**
  a. Students are permitted one transfer to a future cohort
  b. Transfer requests received after this date are subject to a $1000 transfer fee and granted on a case-by-case basis

Cyber Compliance Requirements

Attendance

a. Firm attendance policy: Max of 8, keep to a minimum
b. If you're running late, need to leave early, or out sick/emergency arises, you must notify your Instructor and Instructional Associate
c. If your camera is not on you will be marked absent

Achievements

d. All achievements must be completed (with all problems attempted) to receive your certificate

Foundations (Quizzes and Checkpoint)

e. Your cumulative Foundations grade must be 70% to continue
f. Your lowest quiz score will be dropped
g. 5 quizzes (60% total) + Linux checkpoint (25%) + Python checkpoint (15%)

Web Compliance Requirements

Attendance

a. Firm attendance policy: Max of 8, keep to a minimum

b. If you're running late, need to leave early, or out sick/emergency arises, you must notify your Instructor and Instructional Associate

c. If your camera is not on you will be marked absent

Projects

To receive your certificate:

d. ALL projects must be completed

e. Specified graded projects must have an average score of at least 70%+

Audit Status

If a student fails to meet academic requirements and/or violates the attendance policy they will be moved to **audit status.**

Audit status students are permitted to:

- Access and utilize Slack
- Access office hours
- Access Learndot
- Access all curriculum content

Audit status students:

- May not participate in group project(s)
- Are not eligible to graduate from program and thus do not receive a completion certificate.
- Are still able to participate in career success in-class/group workshops if they choose, however, they can no longer schedule one-on-one office hour/coaching appointments.
- Will **not** have any access to career support, including Fullstack Academy GradLeaders, one-on-one coaching and other career success materials.

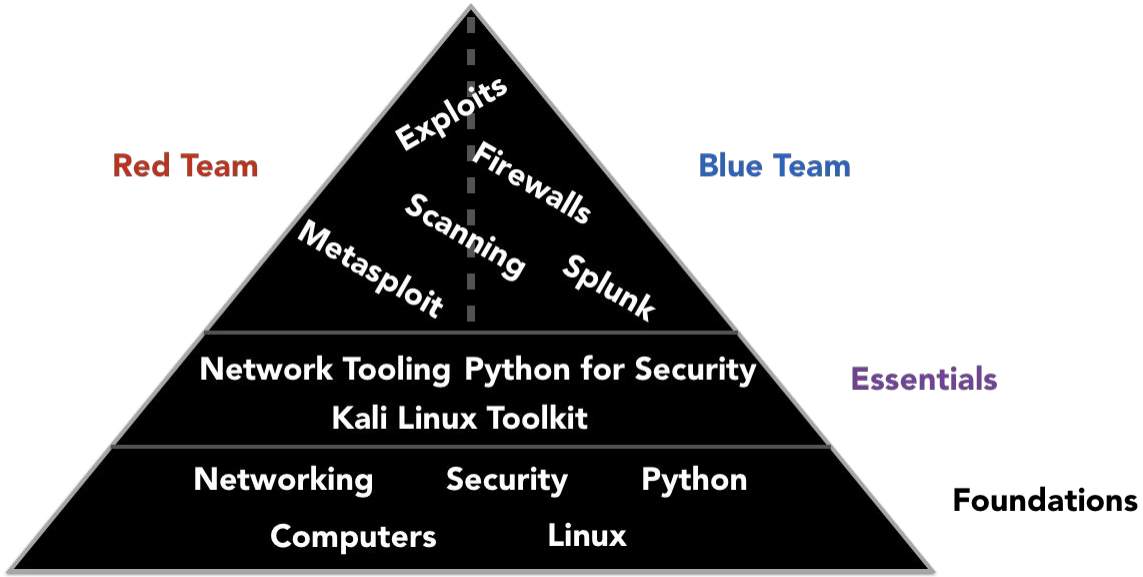
A student can also opt to be moved to audit status if they so choose.

Questions???

Curriculum Overview and Schedule

Fullstack Academy

Curriculum Overview- Cyber



Cyber Program Schedule Part Time – 26 Weeks

- **Foundations:** Weeks 1-7
  - Computing, networking
  - Python Basics
  - Linux / Virtualization
- **Security Essentials:** Weeks 8-12
  - Scripting for Security
- **Red Team:** Weeks 13-15
  - Pen Testing Methodology
- **Blue Team:** Weeks 16-26
  - Security Analyst
- **Hiring/Interview Prep**
- **Flight: After graduation**
  - Attempt Cybersecurity Analyst/CySA+ Certification (Optional)
  - Job Search

Cyber Program Schedule Full Time – 12 Weeks

- **Foundations:** Weeks 1-3
  - Computing, networking
  - Python Basics
  - Linux / Virtualization
- **Security Essentials:** Weeks 4-6
  - Scripting for Security
- **Red Team:** Weeks 7-8
  - Pen Testing Methodology
- **Blue Team:** Weeks 9-12
  - Security Analyst
- **Hiring/Interview Prep**
- **Flight: After graduation**
  - Attempt Cybersecurity Analyst/CySA+ Certification (Optional)
  - Job Search

Web Program Schedule Part Time- 26 Weeks

- **Phase 1:** Weeks 1-5
  Master web programming basics
  - Intro to HTML and CSS
  - Basic Programming with JavaScript

- **Phase 2:** Weeks 6-14
  Front-End Frameworks and Network Communication with AJAX
  - Sending and receiving data over the network with AJAX
  - Rapid prototyping with the ReactJS framework

- **Phase 3:** Weeks 15-26
  Servers, SQL, and Computer Science
  - Career Success
  - Building web servers in NodeJS with Express over the network with AJAX
  - Deploying full-stack applications to Heroku
  - The REACTO interview method

Web Program Schedule Full Time- 12 Weeks

- **Phase 1:** Week 1-2
  Master web programming basics
  - Intro to HTML and CSS
  - Basic Programming with JavaScript
- **Phase 2:** Week 3-5
  Front-End Frameworks and Network Communication with AJAX
  - Sending and receiving data over the network with AJAX
  - Rapid prototyping with the ReactJS framework
- **Phase 3:** Weeks 6-12
  Servers, SQL, and Computer Science
  - Career Success
  - Building web servers in NodeJS with Express over the network with AJAX
  - Deploying full-stack applications to Heroku
  - The REACTO interview method

Academic Integrity

Checkpoints specify what resources are permitted

- Violations include:
  - Looking up specific test questions
  - Sharing solutions with peers
- Policy:

Zero tolerance for violations of Ethics

ETHICAL HACKER MANIFESTO

As a hacker

I WILL	I WON'T
be honorable	be an asshole
be responsible	be dishonest
be reliable	be deceitful
treat people fairly and with respect	do things that are illegal
respect people's privacy (and the privacy of organizations that I work for)	make any misleading or false representations to anyone
keep my skills and knowledge current through lifelong learning	raise unnecessary alarm or give unwarranted comfort
be active in the infosec community, and give back	disclose any confidential information without the specific consent of the owner
build projects, and be willing to share what I learn	work in infosec just for the money
submit only original and authentic work	
inspire and support aspiring hackers	

I will do what I can to help make the world a safer place. I promise to only hack hardware, software and/or networks in ways that are consistent with the values above. In resolving conflicts, I will first consider public safety, then duties to individuals, then duties to the profession.

NAME _____ SIGNATURE _____ DATE _____

Machine Specs Required: Web Dev

- Processor (CPU): Intel i5-6xxx or equivalent
- Operating System (OS): MAC OSX preferred, or Linux distro (Ubuntu)
- Memory: 8 GB RAM
- Storage: 256 GB SSD internal drive
- Monitor/Display: 12 - 15 inch
- In good working condition

Be sure to check your machines! Post on Slack with any questions.

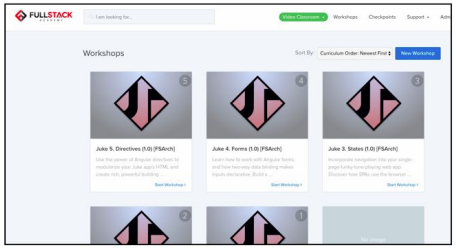
Machine Specs Required: Cyber

- Intel Core i5 processor (from the last 2 years)
- 16GB RAM
- 256 GB HDD Space (50-100 GB free for class)
- Latest version of Windows 10 or Mac OSX
- 13” screen
- Wifi 802.11 AC
- VMWare or VirtualBox hypervisor
- In good working condition
- Please note: we do not currently support the Apple M1 chip!

Be sure to check your machines! Post on Slack with any questions.

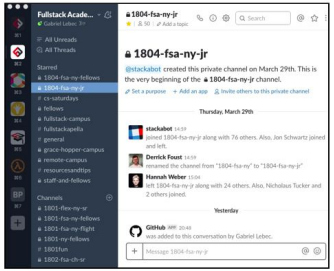
Educational Tools

- activity to confirm for each tool access
- Learndot, slack, library repo, cyberlab, help tickets



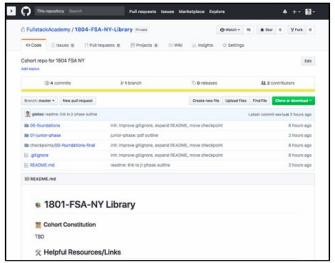
LearnDot

- Workshops
- Lab instructions
- Help tickets
- Checkpoints



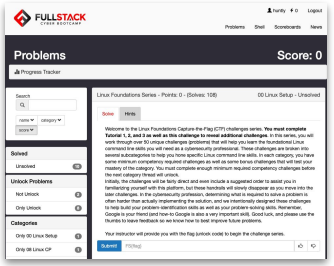
Slack Channel

- Group messaging
- Direct messaging
- Hints & tips



Cohort Repo

- Solution Code
- Lecture & review videos
- Important Links



Cyber Lab (Cyber only)

- Exercises throughout course

Machine Set up

- Initial issues and challenges: IA will set group Office Hours (outside of class) in between Day 1 & 2 to get squared away.

Questions?

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