

# Webinar Series on Remote Learning

## TITLE

Develop an Asynchronous Remote-First Infrastructure for Your Class

## BRIEF SYNOPSIS

Learn to use proven remote-first strategies and easily integrate them into your existing class. One of the downsides of the traditional lecture-based approach is the teacher is the main source of learning. In a flipped classroom, the students lead weekly discussions that they share in a graded, electronic forum like canvas, piazza or slack. The discussion then become a central focus of the learning as they share effective technical communication through methods such as Github, Gists, Jupyter Notebooks and YouTube videos of screencasts.

## SPEAKER

Noah Gift

## SPEAKER BIO:

Noah Gift is the founder of [Pragmatic AI Labs](#). Noah Gift lectures at [MSDS](#), at Northwestern, [Duke MIDS Graduate Data Science Program](#), and the [Graduate Data Science program at UC Berkeley](#) and the UC Davis Graduate School of Management MSBA program, and [UNC Charlotte Data Science Initiative](#). He is teaching and designing graduate machine learning, A.I., Data Science courses, and consulting on Machine Learning and Cloud Architecture for students and faculty. These responsibilities include leading a multi-cloud certification initiative for students.

## DURATION

38 min 33 sec

## TIMESTAMPS

[0:00](#) – Speaker Introduction

[4:00](#) – Section 1

[6:19](#) – Techniques

[9:26](#) – Section 1: Takeaways

[10:22](#) – Section 2

[11:50](#) – Share Screencast Videos

[13:25](#) – Section 2: Takeaways

[13:40](#) – Section 3

[15:08](#) – Section 3: Takeaways

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### Q&A with Noah Gift:

#### AWS Educate

Q: Are there any charges associated with AWS Educate?

A: AWS Educate is free for students and educators.

Q: How can students get more credits when promotional credits get utilized?

A: You can request access through AWS Educate, utilizing the AWS Educate Classrooms feature.

Q: How we can introduce new customer problems on the AWS educate platform?

A: AWS Educate can provide access to the AWS Console through AWS Educate Classrooms to do custom labs.

#### Teaching Resources

Q: What tools would you recommend for recording audio and video? A modern smart phone is actually a high end video system and often can do 4k video

Q: Any practical solutions for team-based learning, problem-solving, project-based learning, and portfolio assessment?

A: Here is some ideas: <https://noahgift.github.io/cloud-data-analysis-at-scale/>

Q: Do you know what tools most adult education teachers are using?

A: The tools depend completely on your own situation. There are multiple types of tools (LMS, quiz, video recording, video conference, etc.) as well as brands in each type.

Q: Do you recommend live coding?

A: Yes. I do live coding and mix it with pre-recorded how-to videos.

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Q: How about an absolute beginner's class for Data Analysis?

A: Here is a good resource: <https://github.com/paiml/minimal-python>

Q: How do I set up a remote learning environment - hardware, software, etc.?

A: AWS Educate and Cloud9 are perfect, there is a guide here on how to get started <https://noahgift.github.io/cloud-data-analysis-at-scale/topics/cloud-onboarding>

Q: How do you hold presenters accountable if they don't present the "best" type of information or material? Is there a rubric that you use?

A: Yes, there is a rubric about how to respond and it is baked into the grading.

Q: I am a CS teacher at a very competitive high school. Can you list technologies/concepts they should start getting comfortable with?

A: I would follow this Duke class I teach: <https://noahgift.github.io/cloud-data-analysis-at-scale/>

Q: How can I adapt team-based learning, problem solving, and project-based learning for online?

A: Creation of digital artifacts: YouTube, etc

Q: I've never taught online. Where can I learn coding?

A: Guide for coding for absolute beginners: <https://github.com/paiml/minimal-python>

Q: What digital tools do you like for students to demo/have discussions?

A: There are lots of options for tools, not only brands but types - LMS, quiz tools, video production, webinars, etc.

Q: What exactly is an LMS?

A: A Learning Management System like Moodle or Blackboard or Canvas

Q: What is a "slack" channel?

A: Slack is a communication tool that is available for free. Think of a threaded online conversation. You invite in a group to discuss a certain topic.

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Q: Where can i find more info about AWS Cloud 9

A: Learn more here: <https://aws.amazon.com/cloud9/>

Q: Can you explain the use of notebooks?

A: Here is a good starter notebook: [https://github.com/paiml/minimal-python/blob/master/Chapter7\\_data\\_science.ipynb](https://github.com/paiml/minimal-python/blob/master/Chapter7_data_science.ipynb)

Q: You mentioned asynchronous format; how often do teams meet in synchronous settings?

A: Once a week at a regular time

Q: What are some online tools that you can suggest for notebooks, scrapbooks and portfolios?

A: It depends on the type of portfolio. It could be as simple as Box, Dropbox, Google Drive or Jupyter Notebook for Computer Science classes.

Q: What kind of training does a student need to have in order to develop the "create a demo" culture?

A: No specific training. In an online environment, they can use simple tools like screencasts, video recording (even from phone), etc.

Q: For what class size is your teaching approach effective?

A: This is appropriate for all class sizes, 20-200 students. You just have to adjust some of your techniques for different sizes. For larger classes, create smaller groups of students.

Q: How do we keep our students engaged during the session?

A: Polls, interactive coding and collaborative notebooks.

## Webinar Series on Remote Learning

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### Resources:

[AWS Cloud9](#) - AWS Cloud9 is a cloud-based integrated development environment (IDE) that lets you write, run, and debug your code with just a browser.

[AWS Educate](#) - Through AWS Educate, students and educators have access to content and programs developed to skill up for cloud careers in growing fields.

[AWS Educate Office Hours for Educators and Students](#) – Webinars, office hours, and training sessions for educators and students

[Box](#) – Box provides a single place to manage, secure and share content.

[Blackboard](#) – Blackboard learning management system provides solutions, resources, and tools to help you deliver quality training.

[Canvas](#) – Canvas learning management platform provides digital learning environments and integrated learning products for teachers and students.

[Dropbox](#) – Dropbox is a file hosting service and workspace that brings files and cloud content together.

[Github](#) – Github provides hosting for software development version control using Git.

[Jupyter Notebook](#) - Jupyter Notebook is an open-source web application that allows you to create and share documents that contain live code, equations, visualizations, and narrative text.

[Moodle](#) – Moodle is a free and open-source learning management system designed to help educators create effective online education.

[Slack](#) – Slack is a collaboration platform that replaces email and helps teams work together efficiently.