



Berkeley**ExecEd**

Future of Technology
Office Hour - Ryan Liu (September 27, 2021)



Agenda



01

COURSE JOURNEY

What's Happened
What's Ahead
What's Trending

02

DEEP(ER) DIVE

What the HEC?
Participant Preferences
FLP IT Practice

03

OPEN FORUM Q&A

Burning Questions

01 Course Journey | What's Happened

Module	Activity Type	Assignment Name (Graded Components)	Release Date	Due Date
3	Drag & Drop	Drag-and-Drop Activity 3.1: Three Types of Computing	2021-09-23	2021-09-30
	Discussion	Discussion 3.1: Deciding Between a Public or a Private Cloud in Your Industry		
	Discussion	Discussion 3.2: Creating Compute Power Resilience in Your Organization		
	Peer Reviewed	Peer Review Assignment 3.1: Addressing a Problem Using Compute Power		

01 Course Journey | Peer Reviews

Peer review assignments (four in total for the course) are accessible on Canvas when modules are released on Thursdays; **September 23 in the case of this second one for Module 3.**

Guidance for Peer Reviews:

- **Up to two assignments** will be assigned to you for peer review
- It is recommended to **give feedback** of at least one positive point and one suggestion
- Refer to [Instructions for Peer Review](#) within the assignment module for details
- Please complete all peer reviews assigned to you by **October 7, 2021** to earn full points for this assignment
- Next Peer Review assignment will be for Module 5

01 Course Journey | What's Ahead

Looking ahead at what's next between weekly Office Hours with a few reminders:



* See Canvas Course Calendar for specifics

** Assignment can still be submitted for course completion until the program end date (Nov. 11) but may not receive feedback

Live Session Webinars

- Monday, Oct. 4, 8:30 AM PDT / 3:30 PM UTC:
Office Hour 4

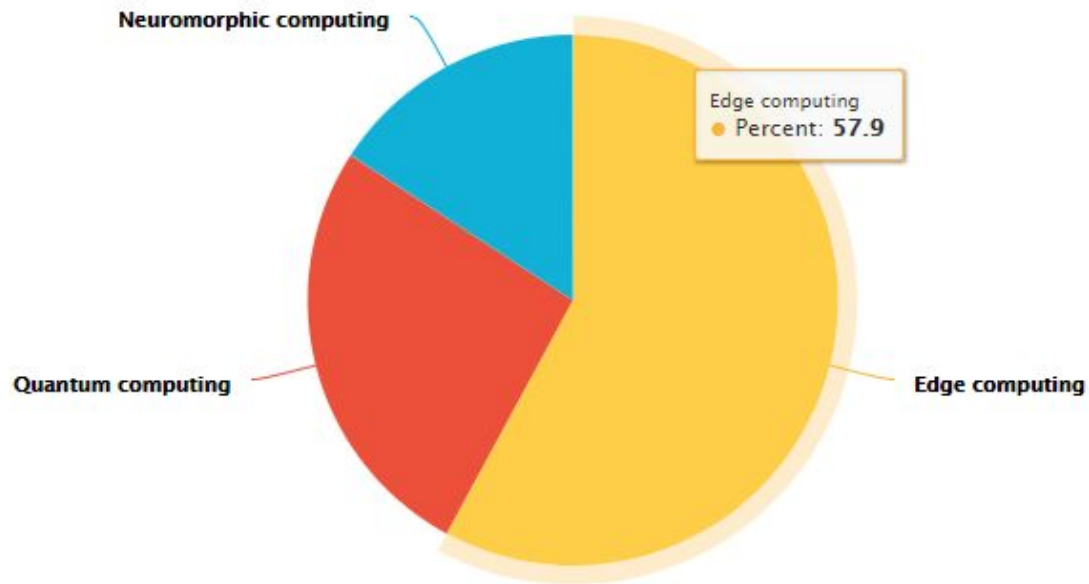
Modules 3 → 4 Transition

- Complete Module 3 **Topic Discussions (x2)** postings and **Drag & Drop (x1)** activities*
- Complete Module 3 **Assignment 3.1** by Sep. 30 for feedback**
- **Module 4 Content** released Sep. 29, 5 PM PDT / Sep. 30, 12 AM UTC

01 Course Journey | What's Trending

Poll 3.1: Utilizing New Types of Computing in Your Industry

Reflect on your industry or an industry of your choice. Which type of computing can be most beneficial to utilize in your industry?



(As of Sep. 26)

Discussion 3.1: Deciding Between a Public or a Private Cloud in Your Industry

Public or Private Preference (As of Sep. 26):

- Public **(5)**
- Private **(1)**
- Both / Hybrid **(8)**

Key Considerations:

- Control
- Cost
- Flexibility
- Geopolitics and Legal
- Security and Risk

01 Course Journey | What's Trending



Join the Student-Run LinkedIn Group!

Future of Technology - Sep 2021

(Special thanks to Siva Pamarti for setting up the group)

02 Deep(er) Dive | What the HEC?

HYBRID CLOUD



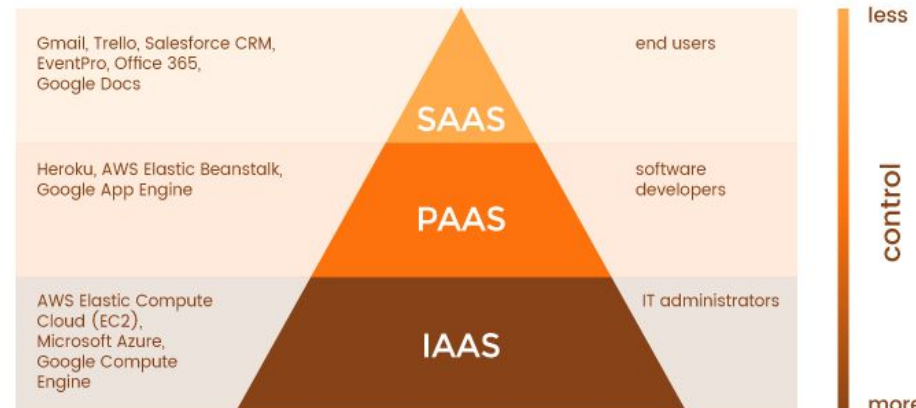
Source: [Turbonomics](#)

Accelerated
By...

What is accelerating **cloud adoption** in your organization (or industry) and in what form (e.g., private, hybrid, or public)? What is a greater pressure: **internal or external**?

Compute Cost

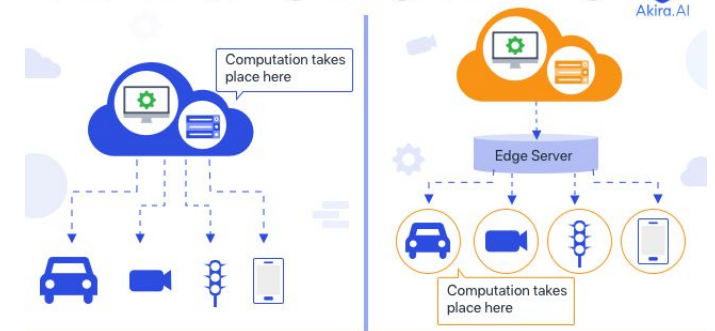
CLOUD (AS-A-SERVICE)



Source: [RubyGarage](#)

EDGE COMPUTING

Cloud Computing Vs Edge Computing



Source: [Akira.AI](#)

Compute Effectiveness

Accelerated
By...

5G

BerkeleyExecEd

02 Deep(er) Dive | Participant Preferences



What would you prefer to focus on for the remainder of this Office Hour?

① Start presenting to display the poll results on this slide.

slido



What would you prefer to focus on for the remainder of this Office Hour?

① Start presenting to display the poll results on this slide.

02 Deep(er) Dive | FLP IT Practice

Practice Mode: It's time for additional practice in the form of an exercise focused on **Forces** and **Logic** of the FLP IT model based on this module's content.

Working individually or as a team, we will breakout with the following steps:

- Revisit the [STEEPLEM forces](#), and address the **edge/cloud** OR **quantum computing**
- Choose **highest impact** and **highest uncertainty** forces to form a 2x2 matrix
- In **one phrase** per quadrant, develop a future scenario (max of 4)
- Come back together to **recap** 1-2 scenarios per person or team
- Goal is **not to predict** which scenario will play out, but to anticipate ideal positions given multiple scenario considerations

03 Open Forum Q&A | Burning Questions



Thank You!

Looking Forward to Next Time!!!

Appendix A | Course Overview

Key Dates:

- Start Date: September 2, 2021
- End Date: November 11, 2021
- Last Day for Refunds: September 16, 2021 [Module 2, Day 1]
- Last Day for Deferrals: September 30, 2021 [Module 4, Day 1]

Program Details:

- Duration: 9 Weeks
- Modules release: Every Thursday
- Canvas Live Course ID: [3412](#)
 - Modules will be released on a weekly basis based on schedule on the right

Live Session Details:

- Faculty Webinars: 4
- Learning Facilitators Webinar: 1, Intro Webinar
- Office Hours: 1 Per Week
- Networking Session: 1, Virtual Networking (September 17, 2021)

Program Outline & Schedule:

Module #	Module Name	Release Date
-	Program Orientation	2021-09-02
Module 1	Introduction to Tech Futures	2021-09-09
Module 2	Artificial Intelligence and Data Science	2021-09-16
Module 3	Compute Power	2021-09-23
Module 4	Internet of Everything	2021-09-30
Module 5	Robotics and Automation	2021-10-07
Module 6	Cybersecurity	2021-10-14
Module 7	Fintech and Blockchain	2021-10-21
Module 8	Portfolio Strategy	2021-10-28

Appendix B | Course Calendar

Module	Activity Type	Assignment Name	Release Date	Due Date
1	Drag & Drop	Five Steps of the Gartner's Hype Cycle	2021-09-09	2021-09-16
	Discussion	Applying Gartner's Hype Cycle to Leverage a Technology in Your Organization		
	Drag & Drop	Strategic Implications Based on S-Curve		
	Discussion	Uncovering New Opportunities by Merging Technologies		
	Assignment	Assignment 1.1: Analyzing the Evolution, Colliding Trends, and Strategic Implications of a Technology		
2	Drag & Drop	Drag-and-Drop Activity 2.1: Differences Between Machine Learning and Deep Learning	2021-09-16	2021-09-23
	Discussion	Discussion 2.1: Applying Machine Learning and Deep Learning to Your Organization		
	Drag & Drop	Drag-and-Drop Activity 2.2: Four Options to Approach the Build-or-Buy Choice		
	Discussion	Discussion 2.2: Improving AI Readiness For Organizations in Your Industry		
	Peer reviewed	Peer Review Assignment 2.1: Creating a Data-Driven Culture in Your Organization		
3	Drag & Drop	Drag-and-Drop Activity 3.1: Three Types of Computing	2021-09-23	2021-09-30
	Discussion	Discussion 3.1: Deciding Between a Public or a Private Cloud in Your Industry		
	Discussion	Discussion 3.2: Creating Compute Power Resilience in Your Organization		
	Peer reviewed	Peer Review Assignment 3.1: Addressing a Problem Using Compute Power		
4	Drag & Drop	Drag-and-Drop Activity 4.1: Four Levers of Data Generation	2021-09-30	2021-10-07
	Discussion	Discussion 4.1: Potential Applications of IoE in Your Industry		
	Drag & Drop	Drag-and-Drop Activity 4.2: Augmented Reality vs. Virtual Reality		
	Discussion	Discussion 4.2: Leveraging Colliding Trends of IoE in Your Organization		
	Drag & Drop	Drag-and-Drop Activity 4.3: Three Approaches for Safeguarding Data		
	Assignment	Assignment 4.1: Leveraging IoE Ecosystem to Build a Multi-Sided Platform		

Module	Activity Type	Assignment Name	Release Date	Due Date
5	Drag & Drop	Drag-and-Drop Activity 5.1: Four Dimensions of Industrial Robots	2021-10-07	2021-10-14
	Discussion	Discussion 5.1: Applications of Robotics in Your Industry		
	Drag & Drop	Drag-and-Drop Activity 5.2: Four Views for the Future of Work		
	Discussion	Discussion 5.2: Planning for Symbio-Intelligence for Your Organization's Future		
	Peer reviewed	Peer Review Assignment 5.1: Enabling Human-Machine Productivity in Your Organization		
6	Drag & Drop	Drag-and-Drop Activity 6.1: Four Types of Cyber Threats	2021-10-14	2021-10-21
	Discussion	Discussion 6.1: Strategies to Reduce Potential Risk in Cybersecurity		
	Drag & Drop	Drag-and-Drop Activity 6.2: Steps in the NIST Incident Response Framework		
	Discussion	Discussion 6.2: Rethinking Cybersecurity in Your Organization		
	Assignment	Assignment 6.1: Creating a Plan to Ensure Cybersecurity		
7	Drag & Drop	Drag-and-Drop Activity 7.1: Six Core Functions of the Financial Industry	2021-10-21	2021-10-28
	Discussion	Discussion 7.1: Disrupting Financial Industry Using Cryptocurrencies		
	Discussion	Discussion 7.2: Analyzing a Fintech Regulation		
	Drag & Drop	Drag-and-Drop Activity 7.2: Three Categories of Blockchain		
	Peer reviewed	Peer Review Assignment 7.1: Applying Digital Ledger to a Business Transaction		
8	Drag & Drop	Drag-and-Drop Activity 8.1: Understanding Four Stages of Technology	2021-10-28	2021-11-04
	Discussion	Discussion 8.1: Investing in Pacing and Key Technologies in Your Industry		
	Drag & Drop	Drag-and-Drop Activity 8.2: Managing Adjacent vs. Transformational Innovation		
	Discussion	Discussion 8.2: Key Takeaways from This Program		
	Assignment	Assignment 8.1: Improving on Your Business Portfolio		

Appendix C | Completion Requirements

To successfully complete the program and get a certification of completion, participants must:

Earn
80/100
points

&

Complete
Capstone
Project

Assignments

- 8 Assignments (4 Peer Review Graded, 4 LF Graded)
- Each Assignment: 4 Points; **32 Points in Total**

Drag & Drop

- 16 Activities (Completion tracked in Canvas)
- Each Drag & Drop: 1 Point; **16 Points in Total**

Topic Discussions

- 16 Topics (Emeritus Program Support Graded)
- Each Topic Discussion: 2 Points; **32 Points in Total**

Capstone Project

- Capstone will be graded by Learning Facilitator (LF)
- Capstone Total Points: **20 Points**

Appendix D | Office Hour Overview

Weekly Office Hours will be focused on the current open module and will have 3 general parts:

Course Journey

Recap of module, **reminder** of what's coming, and **sharing** of what's trending (i.e., externally in the news, from the Module Polls, Discussion Boards, etc.)

Deep(er) Dive

Focused **learning activities** comprised of interactive exercises, discussions, and information sharing tailored to the Module facilitated in plenary or breakouts

Open Forum Q&A

Opportunity for course participants to ask questions and seek further **learning enrichment** from the learning facilitator and fellow peers



Office Hour structure will be flexible and adjusted based on week-over-week student feedback