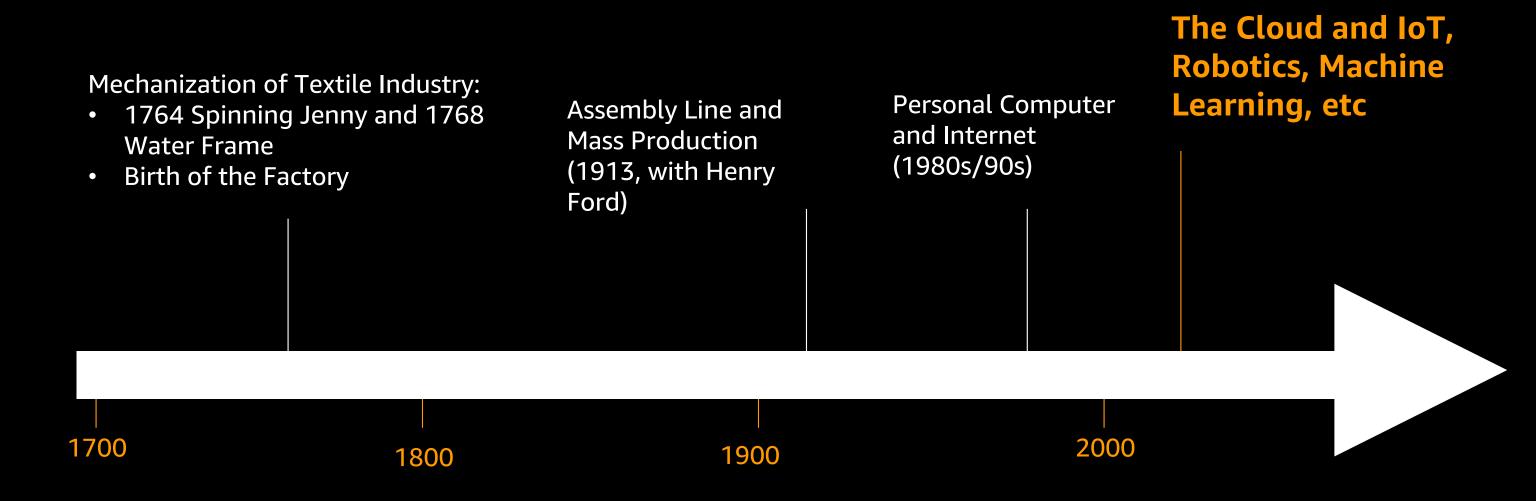


AWS Educate:

Addressing the Grand Cloud Workforce Opportunity

Christina Cole, AWS Educate EMEA Lead

Cloud and the 4th industrial revolution





... dramatic growth of AWS ...

\$30b yearly run rate

+45% YOY growth rate



"Cloud Computing" has been the #1 LinkedIn skill for three years in a row¹

And millions of jobs in the Cloud!

Average AWS Certification Salary²:
AWS Certified Developer, Associate: \$138k
AWS Certified Solutions Architect, Associate:
\$115k

AWS Certified SysOps Admin, Associate: \$108k



PROBLEM: We can't fill the demand for these jobs

- McKinsey's landmark study around mid-to-high skill job gap
- Time to hire increased 80% from 2009 to 2015
- Shift toward "higher-skilled, less routine positions requiring judgment and technical skills"



What is AWS Doing to Address the Skills Gap?









Teaching Tomorrow's Cloud Workforce Today





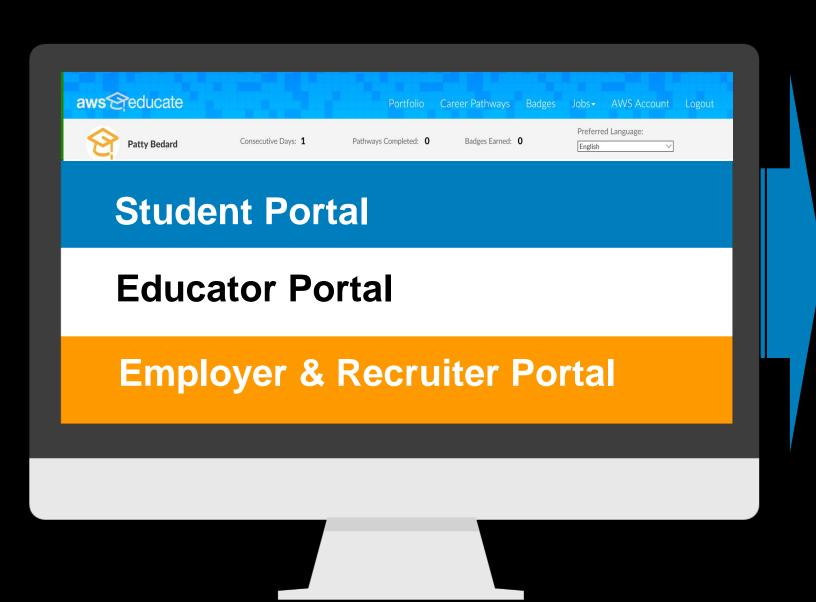




Teaching Tomorrow's Cloud Workforce Today



AWS Educate Value Proposition







Grants for Free Access to AWS



Micro – Credentials



Professional Development



Communities of Collaboration



Job & Internships



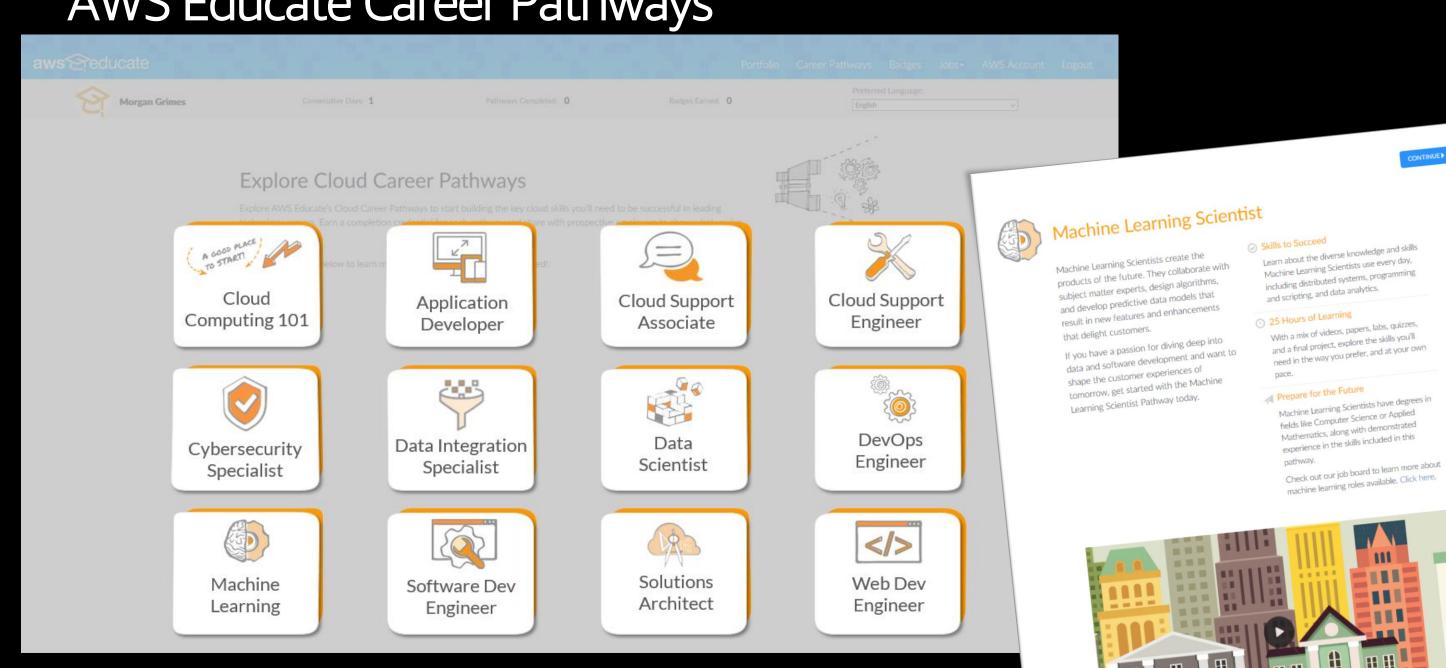
Free access to AWS

- In addition to free learning & teaching content, students and educators get free access to the AWS console
- Students receive up to \$100, Educators up to \$200 when they sign up
- Educators can request more credits free of charge at any point.

	Educators	Students
AWS Credits (annually renewable)	 \$200 in AWS credits per educator – at member institutions \$75 in AWS credits per educator – at non-member institutions 	 AWS Account: \$100 in AWS credits per student at member institutions; \$40 in credits at non-member institutions AWS Educate Starter Account: \$75 in AWS credits at member institutions; \$30 in AWS credits at non-member institutions

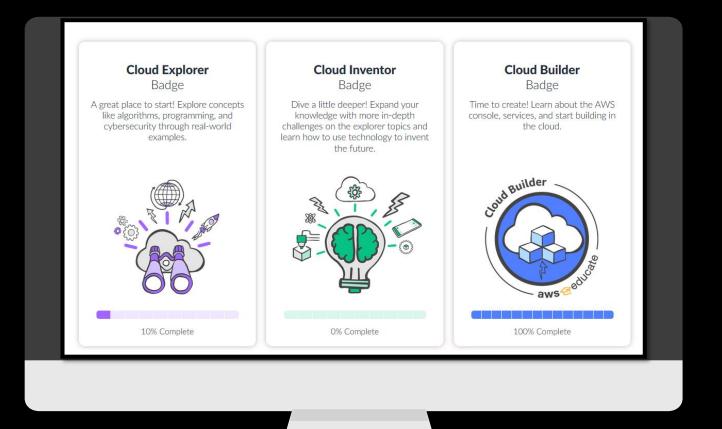


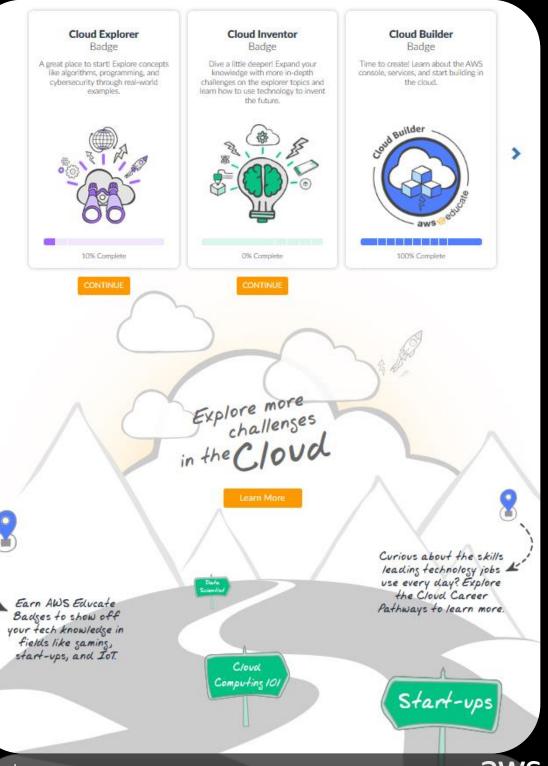
AWS Educate Career Pathways



K-12 Program

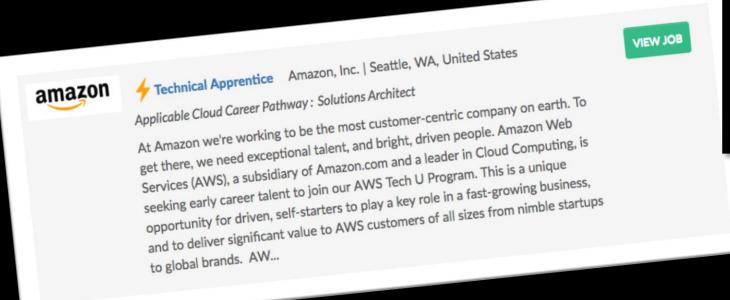
- 3 new cloud badges for students 14 17
- Dynamic navigational experience
- Teacher access to guides which map to core computer science principles





AWS Educate Interview Accelerator

- Job Board feature to accelerate candidates to a cloud job
- Amazon, customers and APN members have access
- Amazon & StakArmor pledge first
- Global Expansion









Knowledge Continuum

CS K-12 Standards

Data and Analysis

Algorithms and Programming

Computing Systems

Impacts of Computing

Networks and Internet

Cloud Skills

Storage

Artificial Intelligence

Data Structures

Security

Identity and Access

Career Competencies

Think Big

Dive Deep

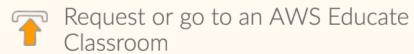
Bias for Action

Invent and Simplify



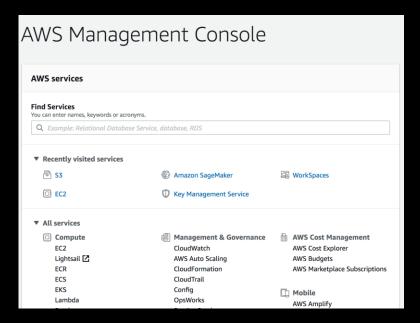
AWS Educate Classrooms

- Capped environment
- Access to AWS Services with pre-loaded credit
- Educator monitored



Request or access your AWS Educate Classrooms. Follow a simple 3-step process to get started and provide your students with free and easy access to the AWS Console for homework, labs, and projects.







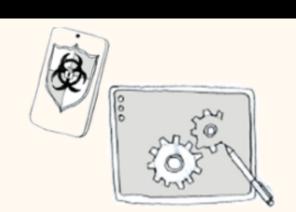
New! Cloud Degree Curriculum Repository- on AWS Educate Educator portal

Cloud Degree Curriculum Repository

Browse downloadable instructional content (e.g. modules, units, lessons, hands-on activities, and assessments) that has been developed by AWS subject matter experts and trusted facult curriculum developers. Assemble or embed content to "cloudify" existing courses or create new "cloud native" coursework.



All content in this repository has been reviewed, approved, and curated by the AWS Educate Curriculum Development team.



Browse Content

Clear Filters

Program Type Certificate 2-Year Degree 4-Year Degree

Showing 5 of 7 results

Security in Amazon Web Services

SECURITY | Full Course, 45 hours

This course focuses on protecting the confidentiality, integrity and availability of computing systems and data.

Last Updated Apr 2, 2019 | Common Cartridge



Add to Favorites



Live Preview



1 2 >

For our AWS Educate- Trail Blazers AWS Educate Cloud Ambassador Scheme



Cloud Ambassador



Mass demand

2400+

Educational Institutions

Over 200

Countries and Territories

Top 10

Global Computer
Science &
Information
Systems
Institutions

QS World University Rankings by Subject 2016 - Computer Science & Information Systems

Half a Million
Of Students

Over 10,000 Teachers



Sampling of global member schools

W

UNIVERSITY of

WASHINGTON











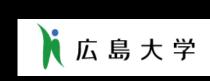




































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UNIVERSITY



SOGANG







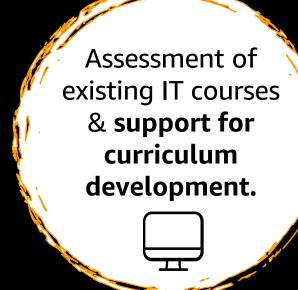


The Cloud Degree



Cloud Degree Initiative is a collaboration between AWS Educate & leading educational institutions to develop academic programs mapped to entry-level positions in cloud computing.

Flexible degree, certificate, or specialization conferred by member institutions.











CALIFORNIA CLOUD WORKFORCE

latimes.com

Amazon partners with L.A. community colleges for cloud computing program

Ethan Millman



Los Angeles Trade Technical College is one of 19 regional community colleges that will offer a cloud computing certificate as part of a partnership with Amazon Web Services. (Glenn Koenig /

Cloud Computing Ed AWS Dual Enrollment Program A stoup of community colleges in Southern California is working with Amazon Web Services A group of community colleges in Southern Cauliume to develop college credit completes for a cloud computing career pathway.

A group of community colleges in Southern Cauliume to receive to industry certifications. The goal of and its education program to develop college credul countries in high school, continues through college and leads to industry certifications. The goal of

10 LOS ANGELES BUSINESS JOURNAL

Amazon Lends Hand on Cloud Curriculum

School sees potential match between certificate program, high-paying occupation

HE need for a pipeline of workers who understand the ins-and-outs of Amazon. com Inc.'s Web Services -a cloud computer service used to host websites and other applications - appears to be strong based on the reaction to a new course offered at a local community college

Amazon has partnered with Santa Monica College to help create a Cloud Computing Certificate. Courses are focused on the fundamentals of cloud computing, and filled up within the first day of the program launching this fall, a likely reflection of demand for such skills in the marketplace.

"Amazon Web Services flew in a team from all over the country to help the faculty develop the curriculum," said Tricia Ramos, dean of workforce and economic development at Santa Monica College. "They obviously need to scale up a workforce in cloud computing



Rendering: SpaceX's BFR docking at the International Space Station.

teach the hardware and software requirements to run systems in the cloud, including storage, database management and software systems, as well as cloud security best-practices. "The value to the students is they are receiv-

abor market conditions and sides of [the] educations are called the center.

Santa Monica College's Cloud Computing for SpaceA, and some sides of the control of the center of the regional labor market could have major benefits for both sides of [the] education-industry partnership," according to a recently released report

GARRETT

nica College piloted its IAWS Educate, High School to offer equipped with 31 rocket engines and the equiva-

"Essentially, we want to manhicles redundant," Musk explained, during a
presentation at International Astronautical Conwhich was held in Adelaide, Australia,
mally quite a profound
that cannibalizes our own products . . . then all the resources—which are quite enormous—used for Falcon 9, Heavy and Dragon can be applied to

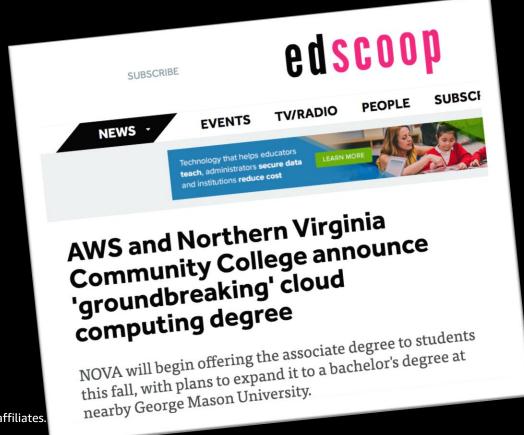
The BFR is scheduled for completion in the early 2020s and would be a do-it-all workhorse ommunities. In return, the for SpaceX, launching satellites into Earth orbit,

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Cloud Associate Degree announced at Public Sector Summit







Thank You!

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#AWSEducate
cscole@amazon.com

