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Information Technology

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Cloud Computing



DevOps and AI on AWS Specialization

Amplify your Dev Team with DevOps and AI on AWS. In this program, you'll walk through each step of the DevOps flywheel to create a CICD pipeline.



Instructors:

[Russell Sayers](#)

+2 more

2,857

already enrolled

3 course series

Get in-depth knowledge of a subject

4.7 ★

(35 reviews)

Beginner level

Recommended experience ⓘ

4 weeks to complete

at 10 hours a week

Flexible schedule

Learn at your own pace

What you'll learn



How to use an Amazon Bedrock large language model (LLM) to generate customized text generation



Implement Continuous Integration and Continuous Deployment pipelines, explore strategies for reliable automation & improve monitoring & observability



Explore how AIOps can help streamline operations, improve the way we monitor applications, and automate responses to common problems

Skills you'll gain

CI/CD

Serverless Computing

DevSecOps

Amazon Elastic Compute Cloud

Generative AI

Containerization

Amazon Bedrock

DevOps
Continuous Deployment
Amazon CloudWatch
Data Analysis
Prompt Engineering
Amazon Web Services
Code Review
Responsible AI
Continuous Integration
AWS CloudFormation
Infrastructure as Code (IaC)
Application Deployment
Unit Testing

[View less skills](#)

Details to know



Shareable certificate

Add to your LinkedIn profile



Taught in English

[2 languages available](#)

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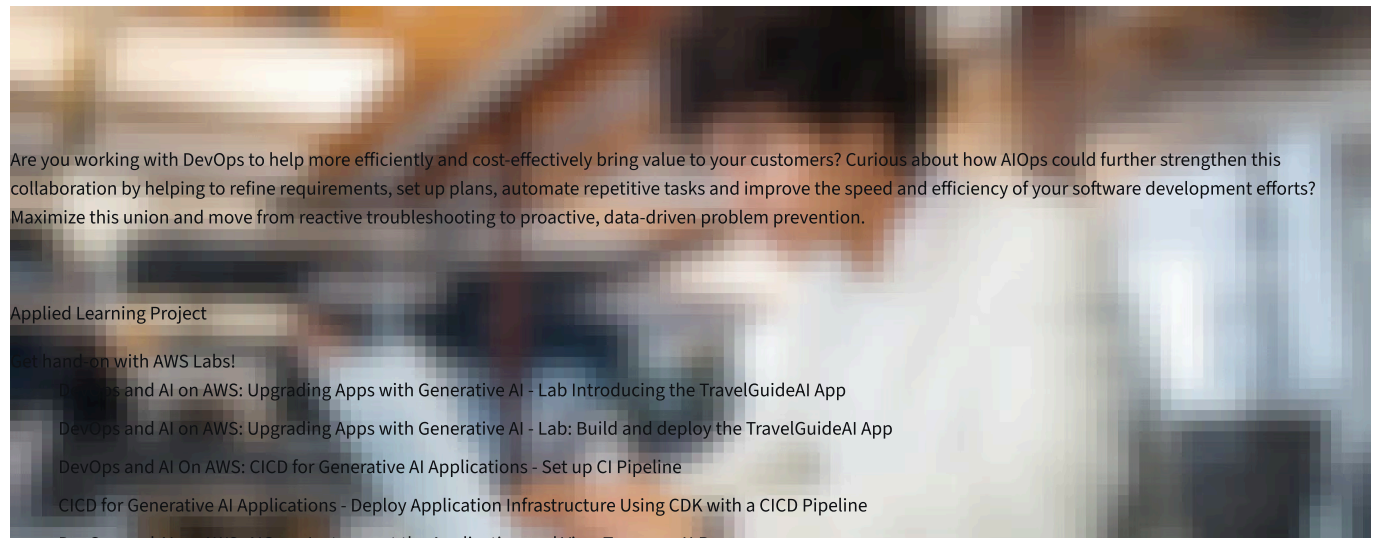
Advance your subject-matter expertise

Learn in-demand skills from university and industry experts

Master a subject or tool with hands-on projects

Develop a deep understanding of key concepts

Earn a career certificate from Amazon Web Services



Are you working with DevOps to help more efficiently and cost-effectively bring value to your customers? Curious about how AIOps could further strengthen this collaboration by helping to refine requirements, set up plans, automate repetitive tasks and improve the speed and efficiency of your software development efforts? Maximize this union and move from reactive troubleshooting to proactive, data-driven problem prevention.

Applied Learning Project

Get hands-on with AWS Labs!

- DevOps and AI on AWS: Upgrading Apps with Generative AI - Lab Introducing the TravelGuideAI App
- DevOps and AI on AWS: Upgrading Apps with Generative AI - Lab: Build and deploy the TravelGuideAI App
- DevOps and AI On AWS: CICD for Generative AI Applications - Set up CI Pipeline
- CICD for Generative AI Applications - Deploy Application Infrastructure Using CDK with a CICD Pipeline
- DevOps and AI on AWS: AIOps - Instrument the Application and View Traces on X-Ray
- DevOps and AI on AWS: Systems Manager for Diagnostics
- DevOps and AI on AWS: CloudWatch Anomaly Detection

[Read less](#)



DevOps and AI on AWS: Upgrading Apps with Generative AI

Course 1

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7 hours

[Course details](#)



What you'll learn



Understanding observability and its importance in application development



Practical use cases for AIOps in real-world scenarios



Key components of AIOps, including anomaly detection, predictive analysis, automated root cause analysis, and remediation

Skills you'll gain

Amazon Bedrock
Generative AI
Application Deployment
Responsible AI
Amazon Web Services
DevOps
Git (Version Control System)
Prompt Engineering
CI/CD
Amazon Elastic Compute Cloud
Unit Testing
Artificial Intelligence
LLM Application
Application Lifecycle Management



DevOps and AI on AWS: CI/CD for Generative AI Applications

Course 2

•

12 hours

[Course details](#)



What you'll learn



Implement DevOps practices including automated builds, testing, and continuous integration pipelines.



Design and execute automatic deployments using Amazon CodeDeploy in a CI/CD pipeline.



Demonstrate how DevOps and AIOps practices improve continuous releases, time to market, and reduce human error in app development and operations.



Apply AI-enhanced monitoring and observability techniques using Amazon CloudWatch Anomaly Detection and AWS X-Ray Insights.

Skills you'll gain

DevOps
CI/CD
Application Deployment
Infrastructure as Code (IaC)
Amazon CloudWatch
AWS CloudFormation
System Monitoring
Generative AI
Amazon Web Services
Continuous Integration

Application Performance Management
Continuous Deployment
Automation
Release Management
Cloud Management
Cloud Applications



DevOps and AI on AWS: AIOps

Course 3

•

5 hours

[Course details](#)



What you'll learn



Understand AIOps and its role in addressing operational challenges.



Implement AI-driven monitoring to reduce alarm fatigue and information overload.

Skills you'll gain

Anomaly Detection
Amazon Web Services
Amazon CloudWatch
DevOps
Artificial Intelligence and Machine Learning (AI/ML)
Code Review
Vulnerability Scanning
MLOps (Machine Learning Operations)
Predictive Analytics
DevSecOps
Application Performance Management
System Monitoring
CI/CD
IT Automation
Continuous Monitoring



Earn a career certificate

Add this credential to your LinkedIn profile, resume, or CV. Share it on social media and in your performance review.

Instructors



Russell Sayers

Amazon Web Services

21 Courses

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124,772 learners

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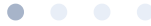
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Upskill your employees to excel in the digital economy

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Frequently asked questions



How long does it take to complete the Specialization?

We estimate that this specialization could be completed in 1 month (average 10 hours/week of learning).



What background knowledge is necessary?

AWS Cloud Technical Essentials



Do I need to take the courses in a specific order?

We recommend that this specialization be taken in sequential order, although some learners may prefer to browse through just one of the three courses if a topic is particularly interesting or valuable.



Is this course really 100% online? Do I need to attend any classes in person?

This course is completely online, so there's no need to show up to a classroom in person. You can access your lectures, readings and assignments anytime and



Can I just enroll in a single course?

Yes! To get started, click the course card that interests you and enroll. You can enroll and complete the course to earn a shareable certificate. When you



Is financial aid available?

Yes. In select learning programs, you can apply for financial aid or a scholarship if you can't afford the enrollment fee. If fin. aid or scholarshin is available for



Can I take the course for free?

No, you cannot take this course for free. When you enroll in the course, you get access to all of the courses in the Specialization, and you earn a certificate when



Will I earn university credit for completing the Specialization?

This Specialization doesn't carry university credit, but some universities may choose to accept Specialization Certificates for credit. Check with your institution to learn more.

Show less



More questions

[Visit the learner help center](#)

Financial aid available,
[learn more](#)

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Skills

Artificial Intelligence (AI)

Cybersecurity

Data Analytics

Digital Marketing

English Speaking

Generative AI (GenAI)

Microsoft Excel

Microsoft Power BI

Project Management

Python

Certificates & Programs

Google Cybersecurity Certificate

Google Data Analytics Certificate

Google IT Support Certificate

Google Project Management Certificate

[Google UX Design Certificate](#)

[IBM Data Analyst Certificate](#)

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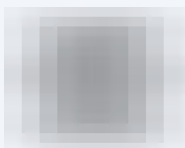
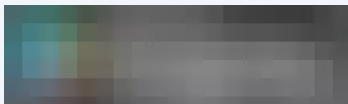
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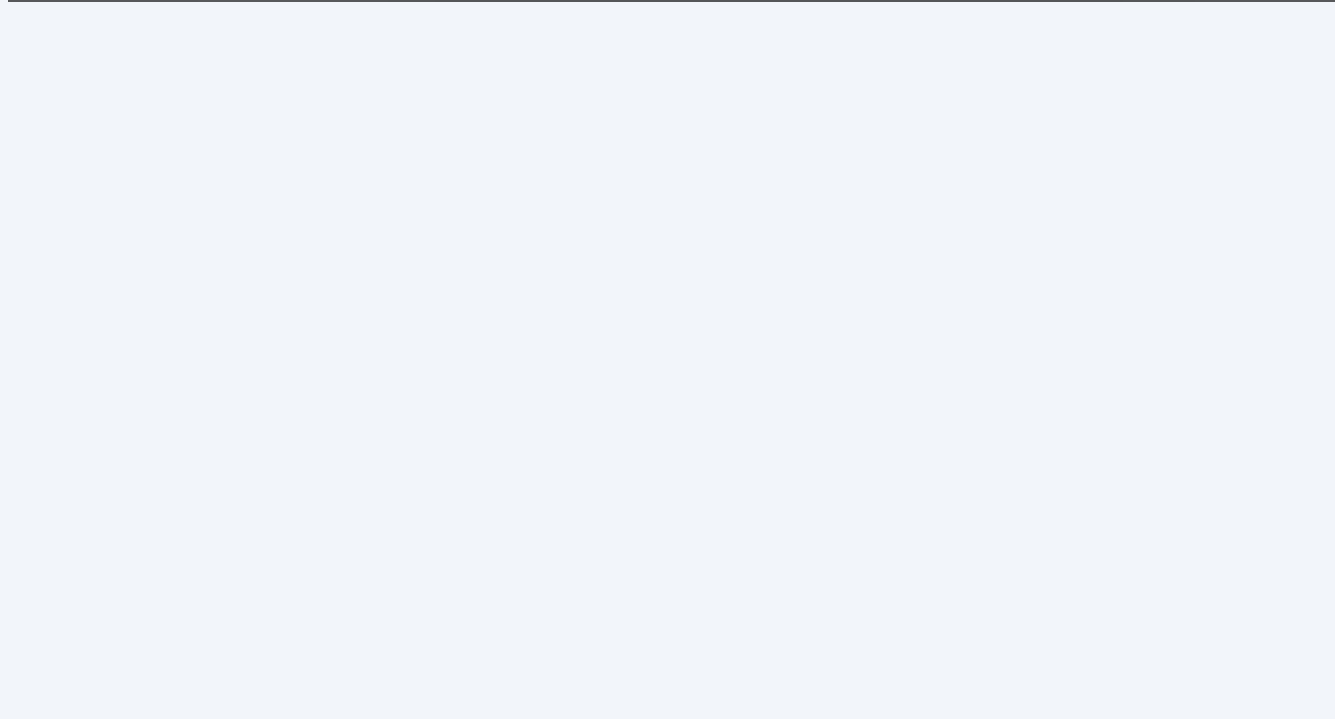
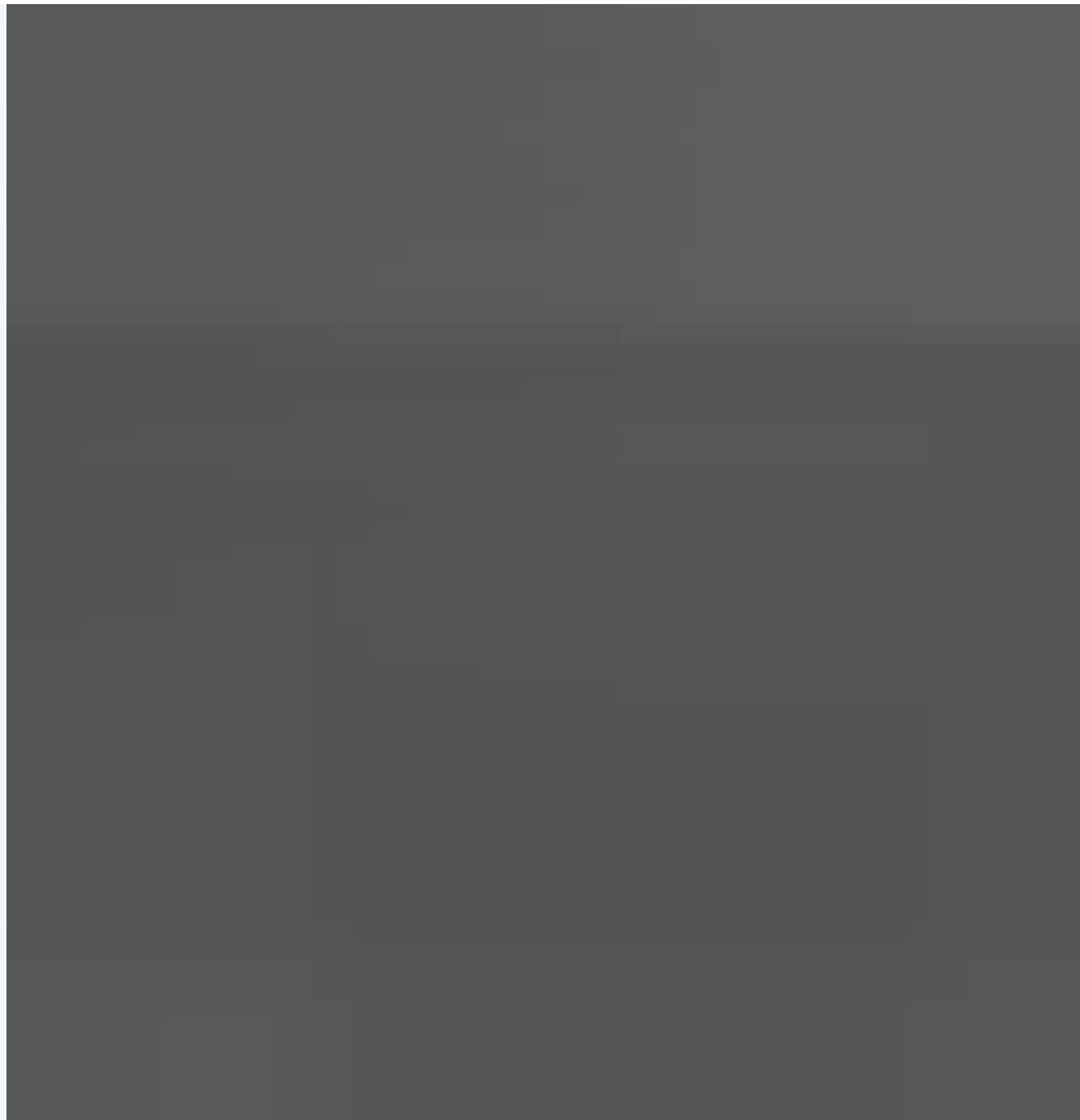
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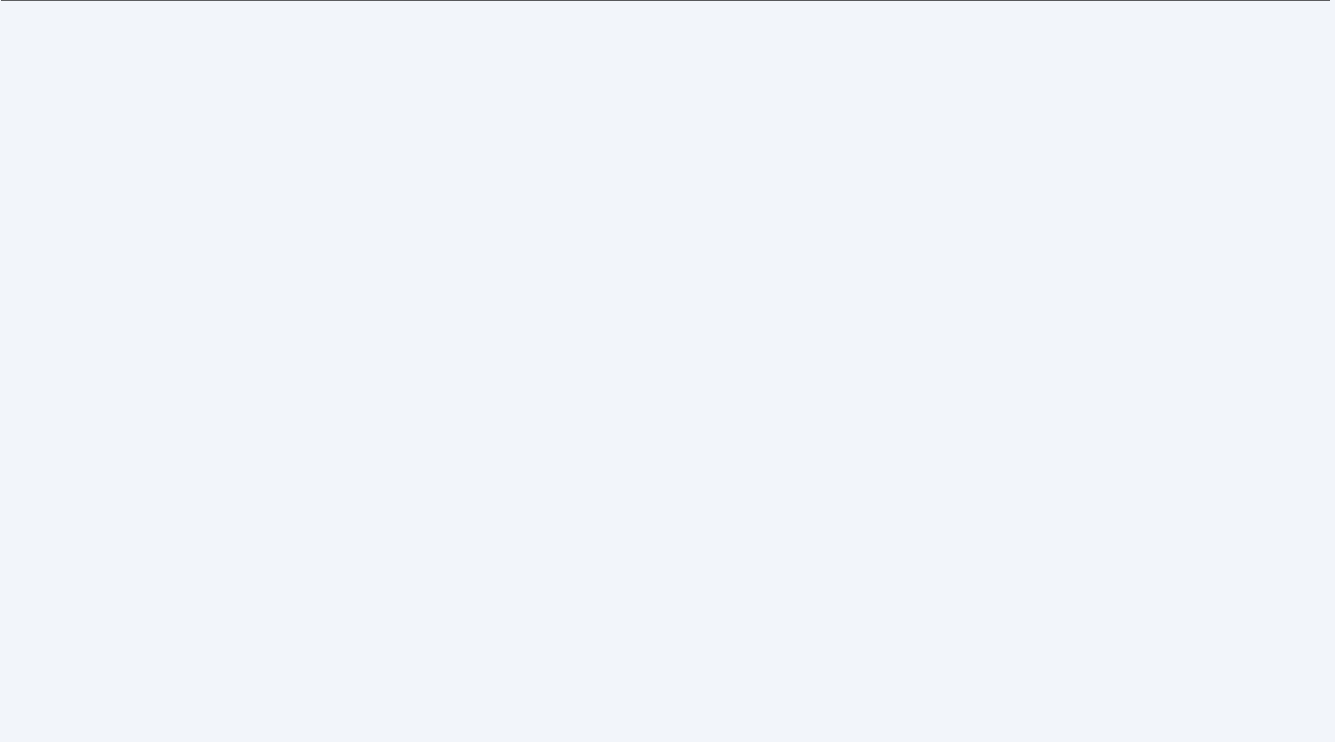
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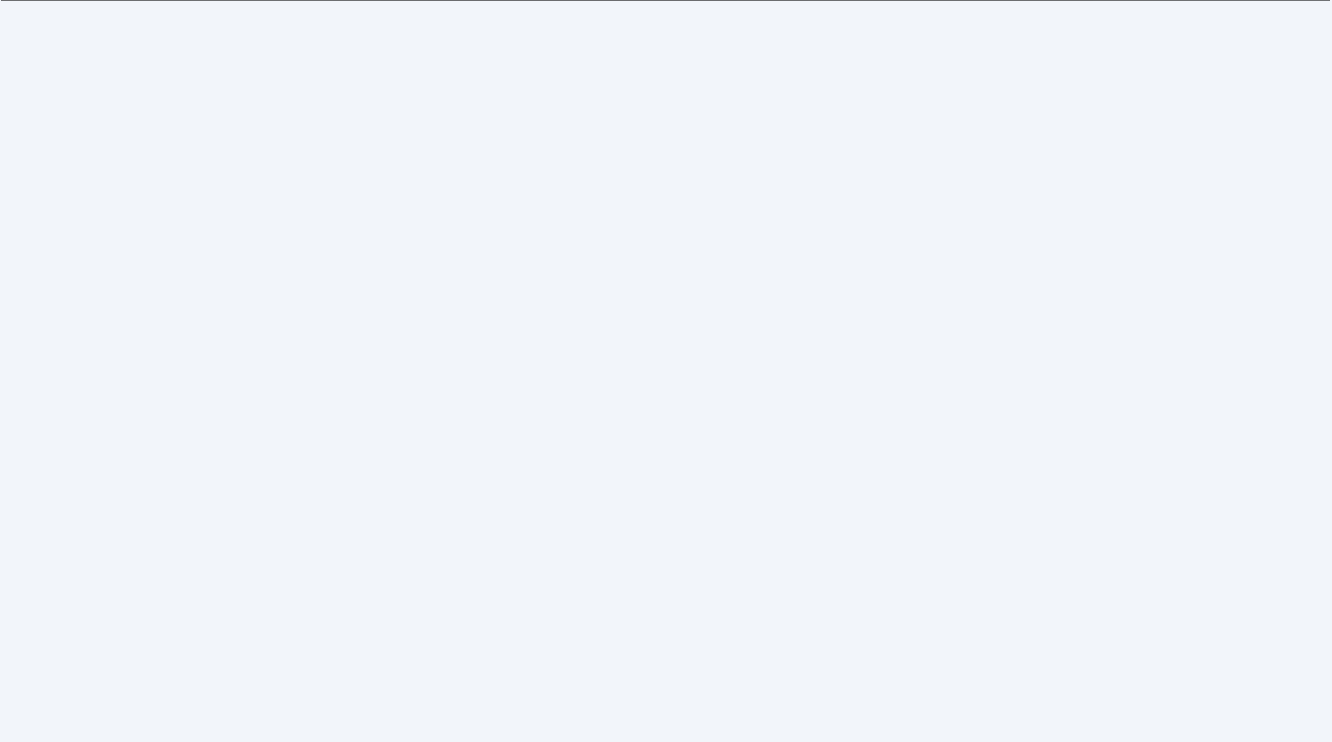
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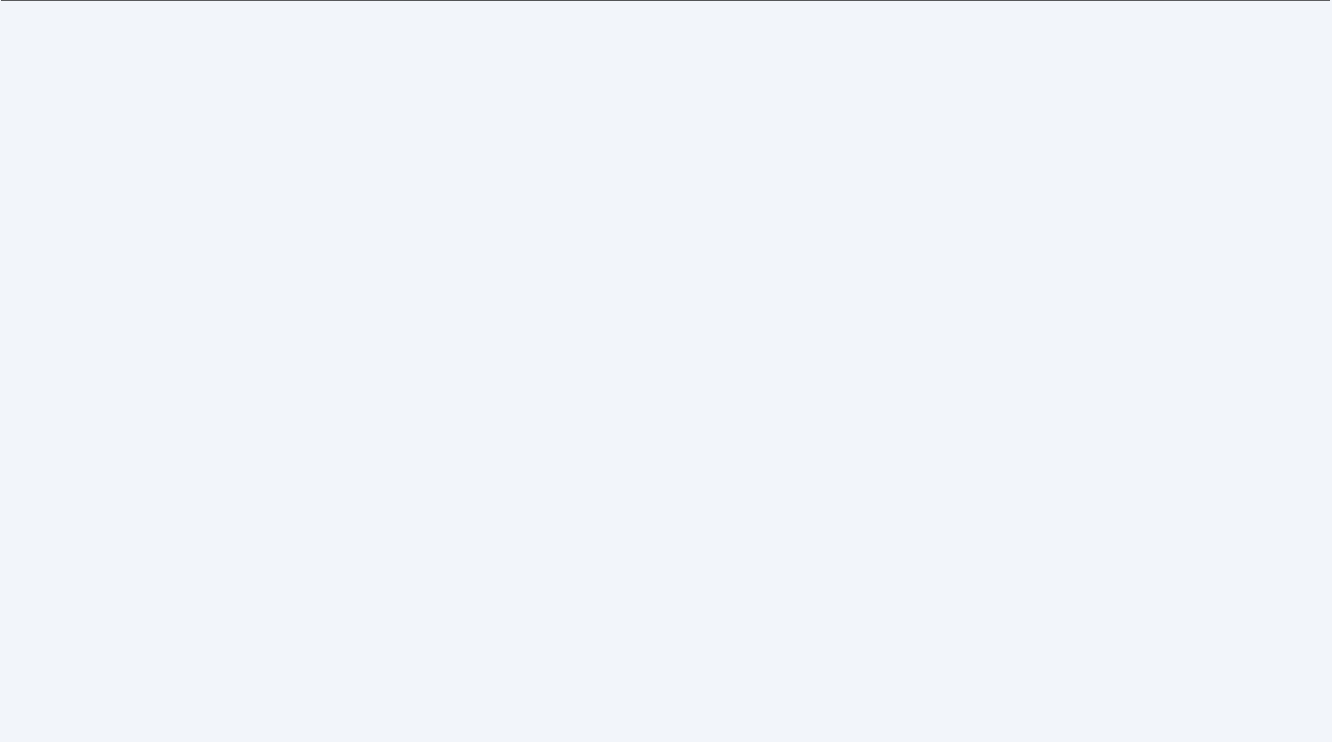












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https://u002F\"u002Faws.amazon.com\";\"logo\":\"https://u002F\"u002Fd3njicbhbjbot.cloudfront.net\"u002Fapi\"u002Futilities\"u002Fv1\"u002Fimageproxy\"u002Fhttp://u002F\"u002Fassets.s3.amazonaws.com\"u002Ff7b\"u002Fb02b1ac85e4273b7a0dc6651a7550c\"u002FAWS_logo_RGB.png\";\"name\":\"Amazon Web Services\";\"partnerMarketingBlurb\":null;\"primaryColor\":\"#6BAD6\";\"primaryLogo\":\"https://u002F\"u002Fd3njicbhbjbot.cloudfront.net\"u002Fapi\"u002Futilities\"u002Fv1\"u002Fim university-assets.s3.amazonaws.com\"u002Ffcd\"u002F92bbf0dede11e8956a710bd6982b76\"u002FAWS_logo_RGB.png\";\"productBrandingLogo\":\"http://u002F\"u002Fcoursera-university-assets.s3.amazonaws.com\"u002Ff7f\"u002F8d4e939da84d28b3bb013a793e82e3\"u002Funnamed-2-.png\";\"rectangularLogo\":\"http://u002F\"u002Fcoursera-university-assets.s3.amazonaws.com\"u002Ff8d\"u002F3dad40e12111e896a95745b885903\"u002FAWS_logo_RGB.svg\";\"secondaryColor\":\"#82A8E1\";\"shortName\":\"aws\";\"squareLogo\":\"http://university-assets.s3.amazonaws.com\"u002Ffa4\"u002F7cd68a658840ddb95c38cdd0bbc8e\"u002Faws-logo-icon-PNG-Transparent-Background.png\";\"website\":\"https://u002F\"u002Faws.amazon.com\";\"instructorIds\":

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pipelines, explore strategies for reliable automation, and improve monitoring and observability for your applications. The course emphasizes practical skills to streamline releases, reduce potential errors, and maintain high-quality, scalable systems in dynamic cloud environments. \n\nWith dedicated modules for Automatic deployments, Infrastructure as Code, Monitoring, and Operations, you'll improve your understanding and ability to execute as a Developer or DevOps Engineer. Get comfortable with AWS services by learning how to use Amazon CodeDeploy in a CI\u002FCD pipeline and using the AWS Cloud Development Kit. You'll then use AWS Services to help with observability and monitoring (Amazon CloudWatch Anomaly detection and AWS X-Ray insights) - both services with AI features to help with more effective monitoring and alarms. By the end of this course, you'll have built a robust application that supports continuous releases, improves time to market for new features and fixes, and reduce potential for human error."

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return config; } else { return {}; } }));/* global coursera */ // Provide a string that will be replaced by edge. // Make sure to use double quotes because edge only escapes double quotes. // Then check that edge actually did the replacement. // Otherwise return an empty object. // You must use double quotes for the injected string coursera.epicOverrides (function() { var injectedString = '{"elements":{"namespaces":{"search":{"idForAllocation":{"2989158909-1764581988570"},"experimentId":{"hp8TP7v8EfCRAa4nU0VIYQ"},"variantId":{"7onxZeGR32J8WxhmRd9KA"},"parameterName":{"eqpAutoApplyFilters"},"id":{"version":{"namespaces":{"edgeRouting":{"idForAllocation":{"2989158909-1764581988570"},"experimentId":{"c2ExaLHEe6PRg7CBHvMLQ"},"variantId":{"LNon_wHbSEKaJ_8B2xhCbA"},"parameterName":{"enableEnterpriseDomainRollout"},"id":{"namespaces":{"AcademicIntegrity"},"idForAllocation":{"2989158909-1764581988570"},"experimentId":{"HYXw1VV_EfCBFBj2BJ8jWQ"},"variantId":{"I9A3ritySJeQN64rcniXng"},"parameterName":{"useGraphQlSimilarityChecksApi"},"id":{"version":{"namespaces":{"search":{"idForAllocation":{"2989158909-1764581988570"},"experimentId":{"LZ-ezrCQEfC-lAr_4rnFJw"},"variantId":{"EJOZ9RoarJCTmfUaGmSQQa"},"parameterName":{"enableAiSummaries"},"id":{"4"},"version":{"1},"value":{"true},"status":{"RUNNING"},"namespaces":{"search":{"idForAllocation":{"2989158909-1764581988570"},"experimentId":{"LZ-ezrCQEfC-lAr_4rnFJw"},"variantId":{"EJOZ9RoarJCTmfUaGmSQQa"},"parameterName":{"aiSummariesConfig"},"id":{"5},"version":{"1},"value":{"treatment_config"},"status":{"RUNNING"},"namespaces":{"DegreesDiscovery"},"idForAllocation":{"2989158909-1764581988570"},"experimentId":{"26y5xAcZe6tLg6_DDNBVQ"},"variantId":{"8LaLvyydTv22i78snd79Sw"},"parameterName":{"pgdipsMarketedAsDegrees"},"id":{"6},"version":{"statistics-data-analytics-pgdip-isi"},"pgdm-spjimr"},"pg-cert-public-health-imperial"},"grad-cert-global-business-practice-macquarie"},"status":{"RUNNING"},"namespaces":{"Enterprise"},"idForAllocation":{"2989158909-1764581988570"},"experimentId":{"HdRLmUrLEfCdgg4J2FZTGw"},"variantId":{"khXYcrdNRtaV2HK3TebWNNQ"},"parameterName":{"enableNewLearnersPage"},"id":{"7},"version":{"Enterprise"},"idForAllocation":{"2989158909-1764581988570"},"experimentId":{"A-FqMoGVeFcafhJYN068EQ"},"variantId":{"dEKZtNRjS-iCmbTUy1vobA"},"parameterName":{"paymentGatewayToBeDisplayed"},"id":{"8},"version":{"1},"value":{"stripeEnterpriseWes"},"status":{"RUNNING"},"tagTarget":{"targetType":{"WHITELIST"},"tagName":{"course_id"},"tagValues":{"Ag847PF9Eeu7_Q6nSq8znw"},"G8JqXl8VEeu8xgoxFomNmww"},"XuXnXKXEe6D4w6kbtK0ww"},"0ZKfGaZHEe6oQA6J-7B2nw"},"lf5lYaZHEe6oQA6J-7B2nw"},"W_kbvUWJEe6hyw4UDDa2MQ"},"78TEaIGZEe6Ozwo2fRssDQ"},"JCIBHF1GEyDkAqiUF1pDQ"},"IfYXoV-JEeyGyBlIdSsL5w"},"yFuH2XzeEe6_Ow7OY5Yqw"},"qxv2YV-IeeyGyBlIdSsL5w"},"2pB1BeveEeyDYwq6z4uKRQ"},"uql54OvjEeyozBj-29c9rQ"},"Mbt3FOvIEeyDYwq6z4uKRQ"},"nmFF2kv8Ee2duhJkYJfJQ"},"Dn5Cxbw0Ee2u-xlQXc-B6w"},"j6XhznOEe2a7QplshOMSQ"},"knCQNTnOEe2skBJ6qkJn8w"},"snwdMb04Ee2PMA5vPCvYw"},"PhICSoltEe2cbxluLDJE9Q"},"hzaR7jnOEe2skBJ6qkJn8w"},"l226AZzC-RlA1w"},"AYWGFx_6Ee6hyw4UDDa2MQ"},"R9EL6NlIEe22vg4tJ4OHZQ"},"9RILPF-IeeylUg4Qv2RsBQ"},"vtlIA9lYEe22vg4tJ4OHZQ"},"l74gGNlIEe22NRJwYmvhw"},"l1FFPoJk_Ee2rxxLf5Ksrw"},"BcyQ_9lIEe22vg4tJ4OHZQ"},"l1xINBDK_Ee2PAQonVRkx_w"},"XrnhKAhGISEHQ"},"oMWWK8ZzOEe2p_A5TjZf84Q"},"ej0JRTnOEe2skBJ6qkJn8w"},"ThZHv0EeyLcA5hHZ0Uxw"},"hl0MwOwBEeyDYwq6z4uKRQ"},"psqt9ZzOEe2L_wpgKckryw"},"h9chKZeEe6oQA6J-7B2nw"},"F7HcFUBEe6M6ArdAkKxFQ"},"q-VGM7R7Ee2GGAqyWdJs5Q"},"lcnN9zpOEe2p_A5TjZf84Q"},"01XvADK_Ee2rxxLf5Ksrw"},"S8C5TbQEe6M6ArdAkKxFQ"},"namespaces":{"AcademicIntegrity"},"idForAllocation":{"2989158909-1764581988570"},"experimentId":{"dlOcmTyCEe6vFhleJsQy6w"},"variantId":{"WC7Dv2_sROyuw79v7LTsYA"},"parameterName":{"enableIdVerificationFingerprint"},"id":{"9"},"namespaces":{"courseraPlus"},"idForAllocation":{"2989158909-1764581988570"},"experimentId":{"kB_RbLWpEfC-lAr_4rnFJw"},"variantId":{"JP3xTKUTT6S98UylE6-kRA"},"parameterName":{"cplus_q4_nov_global_tentpole_promo_redirect"},"id":{"10},"version":{"1},"value":{"true},"status":{"RUNNING"},"namespaces":{"DegreesDiscovery"},"idForAllocation":{"2989158909-1764581988570"},"experimentId":{"DvRWxwSgEe-C1w6tOivQcQ"},"variantId":{"Gu2UKvT6QK2tCr0-pCtig"},"parameterName":{"showThrottledDestinationDegrees"},"id":{"11},"version":{"1},"value":{"false},"status":{"RUNNING"},"namespaces":{"search"},"idForAllocation":{"2989158909-1764581988570"},"experimentId":{"UY9lXbv8EfCRAa4nU0VIYQ"},"variantId":{"7RncVLKnQmiZ3FSypxJo9g"},"parameterName":{"eqpFilterVariant"},"id":{"12},"version":{"1"},"

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and img]/../..\\\",\\\"/html/body/div/div/footer/span[not(normalize-space())]/../..\\\",\\\"\\\"//div[div/h2[text()='Coursera Automation Extension']]}\\\",\\\"//div[./footer[@title='Author:
Saurav Hathi']]}\\\",\\\"//div[./footer[@href='https://github.com/sauravhathi']]}\\\",\\\"//div[./footer[./span[contains(@style, 'font-weight: bold')]] and ./[local-
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lAr_4rnFJw\\\",\\\"variantId\\\":\\\"XfX4SmHIRdeceEph5dXXLA\\\",\\\"parameterName\\\":\\\"enableBrowseV2\\\",\\\"id\\\":64,\\\"version\\\":1,\\\"value\\\":true,\\\"status\\\":\\\"RUNNING\\\"}}]; if
(injectedString.search('EPIC_SITE_HOME_PLACEHOLDER') >= 0) { return {}; } var epicResponse = injectedString && injectedString !== undefined ? JSON.parse(injectedString) : {};
return epicResponse.elements || {}; }(); /* globals coursera */ /* eslint-disable quotes */ coursera.user = (function() { var userJson = \"{}\"; try { return JSON.parse(userJson); }
catch (e) { return {}; } })(); /* globals coursera */ // Defines a named AMD module containing the course ID coursera.courselId = (function() { return '{
ONDEMAND_COURSE_ID_PLACEHOLDER'}'; })();
(function(){var a=document.createElement(\"script\");a.setAttribute(\"src\",\"https://cdn.cookiecutter.org/opt-
out/otCCPAiab.js\");a.setAttribute(\"type\",\"text/javascript\");a.setAttribute(\"charset\",\"UTF-8\");a.setAttribute(\"async\",\"true\");a.setAttribute(\"ccpa-opt-out-
ids\",\"C0004\");a.setAttribute(\"ccpa-opt-out-geo\",\"ca\");a.setAttribute(\"ccpa-opt-out-lspa\",\"false\");document.body.appendChild(a)}());
var adStorageGranted=google_tag_manager[\"rm\"][\"1302275\"](32),data={ad_storage:adStorageGranted?\"granted\":\"denied\"};window.uetq=window.uetq||
[];window.uetq.push(\"consent\",\"update\",data);window.location.href.includes(\"gtm_debug\")&&console.log(\"uetq data: \",data);
window.gtag_enable_tcf_support=!0;
document.addEventListener(\"submit\",function(a){if((a=document.querySelector('#email, input[type=x3d\"email\"]'))&&a.value){var b=(new Date((new
Date).getTime()+18E5)).toUTCString();document.cookie=\"userEmail\\x3d\"+encodeURIComponent(a.value)+\";expires\\x3d\"+b+\";path\\x3d\"/\"}});
var pageCount=google_tag_manager[\"rm\"][\"1302275\"](141)||0;document.cookie=\"high_value_page_count\\x3d\"++pageCount+\";expires; path\\x3d\"/\";
var
visit_count=window.localStorage.getItem(\"visit_count\")||0,visit_count_degrees=window.localStorage.getItem(\"visit_count_degrees\")||0,isNewVisit=!google_tag_manager[\"rm\
[\"1302275\"](142).includes(\"coursera\");isNewVisit&&window.localStorage.setItem(\"visit_count\",++visit_count);var
isDegreePage=location.pathname.startsWith(\"/degrees\"),seenThisSession=sessionStorage.getItem(\"hasSeenDegreePage\"); isDegreePage&&!seenThisSession&&
(window.localStorage.setItem(\"visit_count_degrees\",++visit_count_degrees),sessionStorage.setItem(\"hasSeenDegreePage\",\"true\"));
function handleClickEvent(a){var c,b=a.target;a=a, button, input[type=x3d\"button\"], input[type=x3d\"submit\"]];a=b.matches(a)?
b.b.closest(a);location.search.includes(\"gtm_debug\")&&console.log(\"el + anchor: \",b,a);if(b&&b.nodeName&&(a===null||a===void 0||a.matches('[aria-label*\\x3d\"Slide
Button\"'], [class*\\x3d\"slideButton\"])))b=a===null||a===void 0?void 0:a.closest('button[data-track-component\\x3d\"enroll_subscribe_audit\"]');var d=a===null||a===void 0?void
0:a.closest('button[data-track-component\\x3d\"course_enroll_modal_continue_button\"]'), e=(c=document.querySelector(\"input#choice-input-
AUDIT_COURSE\"))==null||c===void 0?void 0:c.checked;b||d&&e?window.dataLayer.push({event:\"audit_course\"});(c=a===null||a===void 0?void 0:a.closest('[data-track-
component\\x3d\"apply\"]'))?window.dataLayer.push({event:\"enroll_today\"});(c=a===null||a===void 0?void 0:a.closest('[data-track-component\\x3d\"email_me_info\"]'))?
window.dataLayer.push({event:\"request_more_info\"});(c=a===null||a===void 0?void 0:a.closest('[role\\x3d\"dialog\"] button.cds-button-primary'))&&
(document.querySelector('[role\\x3d\"dialog\"] .rc-PhoneNumberInput')?
window.dataLayer.push({event:\"add_phone_number\"}):window.dataLayer.push({event:\"apply_now_modal\"}))))window.addEventListener(\"mousedown\",handleClickEvent);
(function(){function b(a){var d=a.target.closest(&&a.target.closest(c);d||a.defaultPrevented||a.button!==0||a.metaKey||a.ctrlKey||a.shiftKey||a.altKey||!window.Optanon||typeof
Optanon.ToggleInfoDisplay!=\"function\"||(!a.preventDefault(),Optanon.ToggleInfoDisplay()))var c='a[href*\\x3d\"/about/cookies-manage\"], a[data-track-
href*\\x3d\"/about/cookies-manage\"]';window.__otInlinePrefBound||(window.addEventListener(\"click\",b,!0),window.__otInlinePrefBound=!0)}());
function gtag(){dataLayer.push(arguments)} (function(){var a=\",C0001,C0004,C0002,C0003\";gtag(\"consent\",\"update\",
{analytics_storage:a.includes(\"C0002\")?\"granted\":\"denied\",functionality_storage:a.includes(\"C0003\")?\"granted\":\"denied\",security_storage:a.includes(\"C0003\")?\"granted\":\"der
});
(function(g,e,a,f,b,c,d){b.ire_o=a;b[a]=b[a]||function(){(b[a].a=b[a].a)||[]}.push(arguments);c=f.createElement(e);d=f.getElementsByTagName(e)
[0];c.async=1;c.src=g;d.parentNode.insertBefore(c,d)})(\"https://utl.imactcdn.com/A3048862-b6fd-4ea8-8f8c-f07e290b501c1.js\",\"script\",\"ire\",document,window);
(function(c,d,f,g,e){c[c]=c[e]||[];var h=function(){var b={ti:\"4076177\"};b.q=c[e];c[e]=new UET(b);c[e].push(\"pageLoad\");var
a=d.createElement(f);a.src=g;a.async=1;a.onload=a.onreadystatechange=function(){var b=this.readyState;b&&\"loaded\"!==b&&\"complete\"!==b||
(h(),a.onload=a.onreadystatechange=null)};d=d.getElementsByTagName(f)[0];d.parentNode.insertBefore(a,d)})(window,document,\"script\",//bat.bing.com/bat.js\",\"uetq\");
!function(a,b){if(!a.rdt){var c=a.rdt=function(){c.sendEvent?c.sendEvent.apply(c,arguments):c.callQueue.push(arguments);c.callQueue=
[];a=b.createElement(\"script\");a.src=\"https://www.reddtstatic.com/ads/pixel.js\";a.async=!0;b=b.getElementsByTagName(\"script\")[0];b.parentNode.insertBefore(a,b)}
(window,document);rdt(\"init\",\"t2_2tvt8evw\");rdt(\"track\",\"PageVisit\");
window.mutiny&&window.mutiny.client.optIn();
!function(d,g,e){d.TiktokAnalyticsObject=e;var a=d[e]=d[e]||[];a.methods=\"page track identify instances debug on off once ready alias group enableCookie disableCookie
holdConsent revokeConsent grantConsent\".split(\" \");a.setAndDefer=function(b,c){b[c]=function()
{b.push([c.concat(Array.prototype.slice.call(arguments,0))]);for(d=0;d<a.methods.length;d++){a.setAndDefer(a,a.methods[d]);a.instance=function(b){b=a._i[b]||[];for(var
c=0;c<a.methods.length;c++){a.setAndDefer(b,a.methods[c]);return b};a.load= function(b,c){var f= \"https://analytics.tiktok.com/i18n/pixel/events.js\";a._i=a._i||[];a._i[b]=
[];a._i[b]_u=f;a._t=a._t||[];a._t[b]=+new Date;a._o=a._o||[];a._o[b]=c||[];c=document.createElement(\"script\");c.type=\"text/javascript\";c.async=!0;c.src=f+\"?
sdkid\\x3d\"+b+\"\\x26lib\\x3d\"+e;b=document.getElementsByTagName(\"script\")[0];b.parentNode.insertBefore(c,b)};a.load(\"CTIORPRC77UDE4D3R2FG\");a.page()
(window,document,\"ttq\");
```

```
(function(){if(typeof window.sessionReplay==="undefined"){var a=document.createElement("script");a.src="https://cdn.amplitude.com/libs/session-replay-browser-1.28.12-min.js.gz";a.async=!0;a.onerror=function(){console.info("Failed to load Amplitude Session Replay script");document.head.appendChild(a)}}})();var adStorageGranted=google_tag_manager["rm"][["1302275"]](326),data={ad_storage:adStorageGranted?"granted":"denied"};window.uetq=window.uetq||[];window.uetq.push("consent","update",data);window.location.href.includes("gtm_debug")&&console.log("uetq data: ",data);function gtag(){dataLayer.push(arguments)}(function(){var a="C0001,C0004,C0002,C0003";gtag("consent","update",{analytics_storage:a.includes("C0002")?"granted":"denied",functionality_storage:a.includes("C0003")?"granted":"denied",security_storage:a.includes("C0003")?"granted":"denied"});!function(b,e,f,a,c,d){b.qp||(a=b.qp=function(){a.qp?a.qp.apply(a,arguments):a.queue.push(arguments)},a.queue=[],c=document.createElement(e),c.async=1,c.src=f,d=document.getElementsByTagName(e)[0],d.parentNode.insertBefore(c,d)}(window,"script","https://a.quora.com/qevents.js");["318803eb370244778bbf7bdad8020ce4","c48102dc04744782b2c12c0a63bbc510","c550826be95242a19e4fc439cb42e1ea"].forEach(function(b){qp("init",b)});ire("identify",{customerId:"",customerEmail:"});ttq.instance("CTIORPRC77UDE4D3R2FG").track("ViewContent",{contents:[{content_id:"undefined",content_type:"product",content_name:"Unknown"}],value:google_tag_manager["rm"][["1302275"]](356),currency:"\x27USD\x27"});qp("track","ViewContent");(function(){function f(){typeof window.braze==="undefined"&&g<20?(setTimeout(f,50),g++):typeof window.braze!=="undefined"&&(m(),n()))function n(){var a=google_tag_manager["rm"][["1302275"]](362);window.braze&&a&&a!=parseInt(window.braze.getUser().getId())?h().then(function(c){braze.changeUser(a,c);braze.requestImmediateDataFlush();e()})["catch"](function(c){e()):(window.braze&&!google_tag_manager["rm"][["1302275"]](363)&&window.braze.getUser().getId())&&braze.wipeData(),e())}function m(){braze.subscribeToSdkAuthenticationFailures(function(a){k>= 5||a=google_tag_manager["rm"][["1302275"]](364),k++,a&&h().then(function(c){window.braze.setSdkAuthenticationSignature(c)})["catch"](function(c){})})}function h(){function a(d){return(d=document.cookie.match(new RegExp("(^| )" + d + "\x3d([^\;]+)"))?d[2]:null}var c={query:"query Query { BrazeIntegrationQueries { getBrazeJWT } }"};return new Promise(function(d,l){fetch("https://www.coursera.org/graphql-gateway",{method:"POST",headers:{"Content-Type":"application/json","X-CSRF3-Token":a("CSRF3-Token")},body:JSON.stringify(c)}).then(function(b){return b.json()}).then(function(b){b&&b.data&&b.data.BrazeIntegrationQueries&&b.data.BrazeIntegrationQueries.getBrazeJWT?d(b.data.BrazeIntegrationQueries.getBrazeJWT):l("Invalid GraphQL response.")})["catch"](function(b){l("GraphQL request failed: "+b)}))}function e(){try{braze.subscribeToInAppMessage(function(a){window.analyticsTest&&window.analyticsTest.timestamp&&window.analyticsTest.campaign&&dataLayer.push({event:"braze_received_campaign",elapsed_time:Date.now()-window.analyticsTest.timestamp,timestamp:Date.now()})})}catch(a){setTimeout(function(){window.dataLayer.push({event:"braze_ready",braze_initiated:!0}),1500)}var g=0,k=0;f())});var date=Date.now(),itemName=google_tag_manager["rm"][["1302275"]](425)+"_last_event_timestamp";window.localStorage.setItem(itemName,date);dataLayer.push({event:"braze_request_campaign",campaign:google_tag_manager["rm"][["1302275"]](426),timestamp:date});window.analyticsTest=window.analyticsTest||{};window.analyticsTest.timestamp=date;window.analyticsTest.campaign=google_tag_manager["rm"][["1302275"]](427);
```