

Web Development on AWS

Web Apps

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Today

- What we'll build today
- Overview of what we need to build our web app
- How AWS can help us
- What tech we'll use today
- Demo

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What we'll build today

Postagram

A web app that lets users sign up/sign in, post a photo to their timeline for others to see

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What we need

- Visual interface
- Place to store data and a way to query it
- A way for users to sign up/sign in and see their data
- A place to store image files
- A place to host our backend functionality and our frontend code
- A domain

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What would it take to build this ourselves?

- Build out servers and support them on-going
- Manage a database and the server it runs on
- Have a high performing and scalable file system
- Build a secure system for authenticating users and handle passwords and sensitive user data
- Build out core business functionality and visual interface

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How can AWS help?

- Secure, extensive, and reliable cloud platform
- Manages a lot of this for us
- Covers 24 different regions globally
- Over 175 services covering compute, storage, databases, networking, analytics, machine learning, AI, and more

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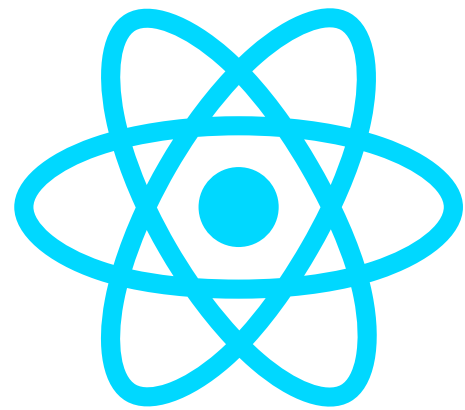
How can AWS help?

Allows us to get from idea to implementation quickly

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What tech will we use?

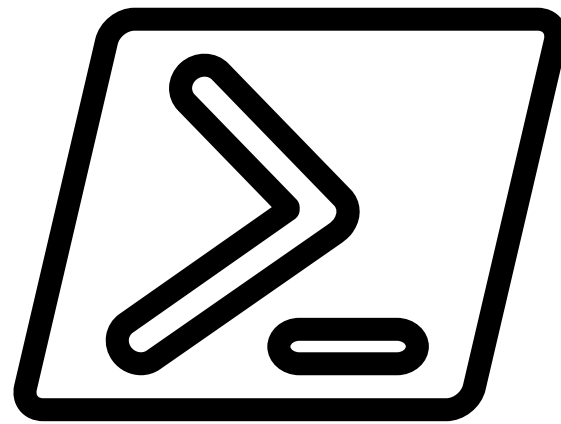
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React

React is a frontend JavaScript library for building user interfaces.

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Command Line

Access the low-level commands that visual interfaces abstract away, offering higher productivity, power, and reliability.

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Amplify CLI

A command line interface (CLI) to rapidly create, integrate, and manage the AWS cloud services for an app.

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Amplify JS SDK

Software Development Kit (SDK)
for connecting the frontend to
cloud resources.

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Amazon Cognito

Provides user sign-up, sign-in, and access control to web and mobile apps quickly and easily.

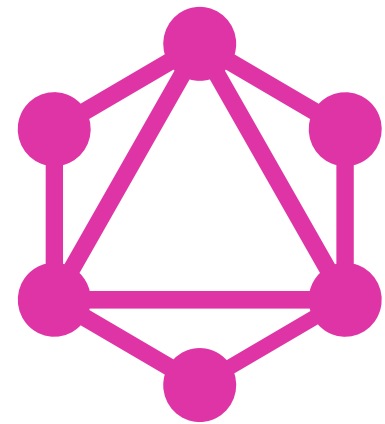
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Amazon DynamoDB

A managed key-value and document database with built-in security, backup and restore, and in-memory caching.

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GraphQL

GraphQL is a query language for APIs allowing developers to get at the data they need and no more

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AWS AppSync

A managed service giving front-end developers the ability to query multiple databases, microservices, and APIs with a single GraphQL endpoint.

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Amazon S3

Simple Storage Service (S3) is an object storage service that offers industry-leading scalability, data availability, security, and performance.

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Git + GitHub

Git is a distributed version control system. GitHub is a git repository hosting platform.

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Demo

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