



# BIG DATA



Codeminders

As early as 2009, we at Codeminders, determined that Big Data would have a colossal impact across the industry. That's why we trained heavily and built an expertise within the field as one of the earliest adopters, contributing to the Hadoop ecosystem development, earning certifications, and creating innovative tools.

## INFRASTRUCTURE SERVICES



## ETL, STORAGE AND PROCESSING



Voldemort

## ANALYTICS AND VISUALIZATION



Highcharts JS

JasperReports

## HADOOP DISTRIBUTIONS



## Overview

Today, with five years of experience working on projects for clients ranging from seed stage entrepreneurs to Fortune 10 organizations, our team tackles some of the most challenging Big Data projects. We're able to take care of every type of Big Data project at every stage.

We lead platform applications and reporting environments, perform terabytes of massive textual data analysis for recommendation systems, and participate in the development of cloud based image and video hosting solutions. Our team can handle, curate, and provide reporting environments for internally and externally sourced, structured, unstructured, and semi-structured data.

## Process

At Codeminders, we've had years of experience leading Big Data projects from conception to deployment. Our team allows organizations to take advantage of internal or external data to drive intelligence through analytics. In our experience, projects typically follow four basic stages: evaluation, architecture, development, and deployment.

**Evaluation:** Before a project even starts at a User Story or a Request For Proposal (RFP), we can provide valuable knowledge and guidance. We listen to ideas and get an understanding of what the startup or enterprise needs, and what the end-state needs to accomplish. Codeminders can then propose technologies and solutions in a meaningful and customized way. Maybe the situation calls for HBase™, or MongoDB. Maybe it should be hosted through Amazon, Google, or a private cloud. Asking the right questions around the technology stack allows us to find the right solutions.

**Architecture:** Our team can take a number of ideas, recommendations and technologies and develop a more formal system architecture. We can scope the technology stack, and incorporate all the fragmented technologies that will come together, resulting in a clear and strategically architected plan on how to put it together and the big picture of the project. From the simplest aspects, like what it will run on, to more complicated facets, like how and where it will interact with other systems, our thoroughness results in a comprehensive architecture document.

**Development & Support:** *We love building.* The Codeminders team of Big Data experts can implement the proposed architecture or hit the ground running to develop and deploy a pre-existing system design. We understand the massive differences between startup and enterprise environments and have a wealth of experience to pull from when it comes to executing a deployment that best accommodates the particular environment. After seamless delivery, we provide, ongoing support to help you handle any situation you might run into. When it comes to fixes, adjustments, upgrades or anything else you may need, we've got you covered.

**Deployment & Maintenance:** While we typically prefer to deploy in an Amazon Web Services environment, we can enable the deployment in a number of public or private clouds. We build and deploy a scalable system, implement the software, and configure it to our client's individual needs. Need a maintenance and managed services approach? We do that. You own the system, and Codeminders provides the remote system administration running on your account.

from ideas. to reality.

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### For *Entrepreneurs*

Just want to understand the landscape of Big Data? From tools to terms and everything in between, we can help you wrap your head around any project.

### For *Startups*

Already have an idea of what you need and just looking for someone who can work with a particular tool set or technology? Not a problem. Even if you already have a product, Codeminders can help introduce a Big Data aspect to it or help you as you scale to a size that requires a Big Data approach.

### For *Enterprises*

Looking for certified Big Data developers and data scientists, ongoing support, or an established company with exhaustive experience on enterprise deployments? We can work within any project architecture and with any tools or products. Or maybe you need help with migration from an existing database? We've worked with companies from Fortune 1000 up to Fortune 10, and have the skills and background to take on the most difficult Big Data projects.

## Select Services

When you've worked in as many different Big Data environments across as many startups and enterprises as we have, you learn how to solve the challenges that inevitably arise and avoid them in future deployments.

**Migration:** Migration from a legacy system to the cloud can be difficult. We develop a plan that brings migration problems down to manageable size and then work closely with clients to solve them completely.

**Designing for Scalability:** Scalability is often the reason clients decide to undertake a Big Data project, and we're there to make sure it lives up to their goals. From the expected number of users to throughput, data size and load, and growth rate, our team will help you plan your capacity. We'll make sure that you thoroughly understand what resources, technology, and architecture will scale alongside your business needs.

**Data Diversity:** Our team can handle, curate, and make actionable, internally and externally sourced data, whether structured, unstructured, or semi-structured. We have dealt with a variety of taxonomies, ontologies, file formats, and data types. There's nothing we haven't seen and developed when it comes to a Big Data project.

**Big Search:** Search functionality within Big Data environments is a formidable challenge; you're looking to make the data and information searchable and accessible. We get that. We've worked in some tough environments, and we can make real-time data searchable and accessible across multiple languages.

**Machine Learning & AI:** We can help you use the data to gain valuable insights to develop machine learning solutions - As a blend of developers and data scientists, we speak machine learning. We are comfortable with natural language processing capabilities and can make products that are able to make recommendations based on user preferences.

**Analytics & Visualization:** While we help to put your data in the cloud, it's not enough to just collect information. It needs to be presented in a format that allows you to analyze and make decisions. We help you make the data actionable to the rest of the team, from sales and marketing to HR, even the finance guys.

### Big Data Case Study: Fortune 500, Advanced Technology Group

- ✓ Codeminders extended the Hadoop framework to work with the client's existing enterprise cloud storage solution, instead of standard Hadoop storage HDFS.
- ✓ Allowing efficient Big Data processing in highly distributed deployment where data is spread across multiple geographically dispersed data stores.
- ✓ Created an Amazon compatible API frontend for a massively-scalable distributed storage system, providing an Amazon S3 interface to the client's data store and allowing their users currently using Amazon S3 to seamlessly switch to using the clients own platform.

# Codeminders

If you're considering a Big Data undertaking, whether you want to understand the landscape of Big Data tools and technology or you're in need of a specialized team that can handle a difficult build, talk to our team. We'll walk you through a brainstorming session where we can scope your project and explain how Codeminders works. It's during this meeting that you'll get a feel for our process and transparency and understand how we can build within your budget. Learn more at [www.codeminders.com](http://www.codeminders.com)

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