



Codeminders

WEB DEVELOPMENT



The world abuses websites. We've turned them into workhorses, put our confidence and our business models behind them, and asked that they do everything, integrate with everything, and operate on everything, as fast as possible without ever failing. Ever. At Codeminders, we're a veteran team of hardcore engineers that build and marry beautiful and complex web front-ends to powerful and scalable back-ends. This is serious web development work for seriously powerful websites.

FRONTEND



BACKEND LANGUAGES



Overview

Many web development firms are nothing more than creative agencies. They focus their attention on front-end work, providing design services and sometimes front-end development. Their focus is on the aesthetics. We're not a web design studio, and that's a good thing. We believe form follows function, not the other way around. You need more than just a pretty UI design, you need full-cycle web development. At Codeminders, we're not designers, we're hardcore engineers. We've spent years honing our skills in the mechanics of web development, from taking a design vision and turning it into a flexible front-end using HTML/CSS/JavaScript, which runs on every device, to building back-ends that integrate, communicate, and operate with everything.

Process

At Codeminders, we've been building cutting edge web applications for more than a decade, and we understand the nuances that come with serious web development. From evaluation and architecture to development and support, our full-cycle approach to web means one team, fewer handoffs, better communication, and a brilliant result. Learn more about the process below:

Evaluation: During the evaluation process, we'll listen intently to your vision and give you feedback on your project. From the beginning, our team can make recommendations and work with you to scope a web build that takes everything into account. Every web technology, from PHP to HTML5, has its stronger and weaker points. We are experienced enough to know which is right for you based on the end functionality you're looking for, so that your web project ultimately succeeds.

Architecture: Our team can take the vision, ideas, and recommendations created during the evaluation stage and develop a complete web application architecture. This is where experience counts, orchestrating the front-end build with the back-end development, ensuring that the functionality and communication between each is properly scoped. We can incorporate third-party services, such as social sign-on or messaging, that will enhance the website, but not require the time and effort to build from scratch. Additionally, we can recommend performance enhancing approaches, such as a content delivery network (CDN), that we can build into the overall architecture of the project. At the center of all web projects, our team focuses on the scalability, reliability, and security of the web application.

Scalability and Reliability: Before we even touch code, we think hard about horizontal scalability. We ensure that as you ramp up your server infrastructure, you're able to invest inline with user growth, gaining the incremental benefits without having to take on large capital expenditures at the start. We call this "Affordable scalability." Of equal importance is the idea of site elasticity, the ability for your site to flex to seasonal or viral spikes in users and traffic. Lastly, as engineers, we think in terms of redundant systems and build around the concepts of failover and graceful degradation - if one component goes down, it doesn't kill the entire system.

Security: Our clients often deal with a large amount of personal information from their users, and maintaining the highest security is a primary concern for us. At Codeminders, we always keep security in mind when developing on the web, so that you can keep your customers' trust. Whether data security is a legal requirement or a best practice for your business, we build around data security, ensuring that if you collect personal data through your site, it's managed, encrypted, and secure. We develop web applications to be secure from the start, ensuring unsafe programming practices that could lead to a breach are avoided, while building in added layers of security that facilitate intrusion detection and monitoring capabilities.

from ideas. to reality.

tel +1 (650) 260-5438 | www.codeminders.com | info@codeminders.com



For *Entrepreneurs*

We can handle any need that you might have. We're the one-stop-shop for entrepreneurs with great ideas that need a web product, and we'll walk you through the technologies, including both the front-end and back-end development, all while advising where to host for less money and optimal scalability, and how to facilitate easy ongoing maintaining maintenance of the site.

For *Startups*

Already settled on a web framework? We can step in and support development at any stage. We easily adapt to another process or system and can manage regardless of whether you have no framework or a complex or lesser-known framework. If you need dedicated developers that can focus on one specific task, rather than pulling someone from your existing team, let our group of experts take the pressure off your engineers.

For *Enterprises*

Whether your team has an existing website, a one-off site or microsite, or a new web application project, Codeminders can take on the challenge and program sophisticated and responsive web design that will accomplish your team's goals. We integrate with your IT infrastructure without pulling precious IT resources away from core areas.

Development and Support

We love building. The Codeminders team of web development experts can propose and implement the architecture or hit the ground running with an existing system. Our websites support multiple browsers and devices. We utilize automated testing tools to simulate visitor requests, to stress test for potential problems with performance and reliability, well ahead of the actual site launch. Our team can utilize a CDN to serve content faster to end users. Additionally, we can work to support both localization and internationalization for your site, whether it be multilingual capability or support for various date/time formats. When it comes time to launching the site, we can deploy on your behalf, either to your own servers or to a public cloud such as Amazon Web Services. The Codeminders team can incorporate the needed functionality to not only maintain and update the site, but to monitor performance, perform backups and restore/revert information, if needed. We can 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.

Select Services

When you've worked on as many web development projects as we have, you learn how to solve any hurdle that inevitably arises. In addition to building rock-solid websites for our clients, we're also skilled in a number of specialized and complementary areas.

Big Data Integration: Modern websites can take advantage of large amounts of data to provide services that were impossible a few years ago. To utilize the power of this data, websites require highly sophisticated algorithms for automated data analysis, machine learning, dynamic search, and recommendations engines. When it comes to complex problems like these, our team can make suggestions and implement working solutions. You can find more information around our big data expertise and services we offer within our "Big Data" data sheet.

Video Conferencing & Video Streaming: With the ubiquity of webcams in desktops and laptops, and the rapid growth of connected devices with camera and video functionality, many of our clients are looking to utilize video conferencing and streaming services as a core component of their product and website. We can handle the development of systems designed with these video capabilities in mind, and have worked within such technologies as WebRTC, Adobe Media Streaming, and Red5 media server.

Mobile Web: We can design, build and optimize websites for mobile, ensuring that your site has a clean, consistent feel across mobile phones and tablets alike. Additionally we can develop native applications for popular mobile platforms. If you'd like to learn more about our mobile capabilities, feel free to check out our "Mobile and Internet of Things" data sheet.

Complementary Technologies: If you're wanting to create something outside of the typical website build, Codeminders can develop it. We've built everything from Facebook Apps to browser extensions for Safari, Chrome, Internet Explorer and Firefox.

Web Development Case Study: Education Web Portal

- ✓ Codeminders created an education web portal where students and teachers could collaborate, upload assignments, host classes, and more.
- ✓ Codeminders developed the architecture for the site and then provided a dedicated team to work on the project for an extended period of time, facilitating multiple iterations of the project, while working closely with the customer and product team.
- ✓ Codeminders engineered the back-end development, utilizing Amazon Web Services to it's fullest extent (CloudFront, S3, EC2, SQS, DynamoDB, and more), while also developing the modern front-end using HTML5 and CSS3.

Codeminders

If you're considering a new website or web development project, whether you need programmers that can handle a unique UI or front-end coding, or a complicated back-end development, 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

from ideas. to reality.

tel +1 (650) 260-5438 | www.codeminders.com | info@codeminders.com

