

## Business Domain

High Tech and Software Platform

## Project Type

Global web platform with cloud based microservices backend

# Remote In-Sourcing Team® Significantly Enhanced Cloud Solution by Moving to Microservices and Elasticity

## Client

The Client holds the largest pool of top talents with the right mix of skills looking to take their career to the next level. The access to the pool, together with the invaluable market intelligence, is tailored to customers' changing business needs, allowing them to leverage a tangible competitive advantage.

## Project

An international web site for recruiting with a huge infrastructure. To keep it available 24/7, the monitoring services must be detailed and reliable. The goal of the project is to refactor the legacy code and achieve 99.99% availability.

## Objective

The first goal in infrastructure reorganization was 99.99% availability of the platform. The legacy code has monolith parts that needed to be split. From a business perspective, the development of new features that users are willing to pay for will continue. Other tech improvements, however, such as infrastructure reorganization, might pause business development but ensure a better experience in the future. It requires careful planning and expertise to minimize the impact on ongoing operations.

## Team Reinforcement

The Client trusted the Remote In-Sourcing Team to develop a solution that would handle the legacy refactoring and site performance issues. An experienced and professional Client representative helped discover key changes that had to be done to increase scalability and site availability. High-caliber talents among management allowed the tech improvements to move forward along with new business feature releases. The collaboration between the Client and Dedicated Team was very productive.

# Challenge

The Client operates in 19 markets across North America, Europe, the Middle East, and Asia-Pacific. The website connects finance professionals with hiring companies and helps companies find Investment Bankers, Traders, Asset Managers, Relationship Managers, Treasurers, Risk Managers, Auditors, Business Analysts, Actuaries, and Graduate Trainees.

The Client experienced maintenance, support, and performance issues of the global web portal with millions of daily users.

The Client doesn't have an R&D team to implement major development initiatives. There were only a few professionals for support and maintenance in-house. The Client required team reinforcement from an external vendor.

## Quick Facts

- ✓ 99.99% web site availability
- ✓ Monolith was split into 31 microservices
- ✓ Zero deployment downtime is a result of following CI/CD for all services

### Technologies

AWS / Java 11 / Spring / Quarkus / Angular 10 / Python / NodeJs / Solr / Elasticsearch / Redis / Ansible / Terraform / Docker / Nginx / Amazon Lambda / Amazon CloudFront / Apache ZooKeeper / React / WordPress / Spring / Amazon RDS / Amazon DynamoDB / SQL Server / MySQL / PostgreSQL / Jenkins / GitHub

# Solution

## ★ 01

The platform availability was raised up to 99.99%. Autoscaling groups and fully managed services were developed for scaling and handling unpredicted spikes of requests.

## ★ 02

Improved monitoring to 15.5K metrics of the whole platform. 830 automatic alarms were set for system degradations or outages.

## ★ 03

The serverless approach optimized costs since the Client pays only for utilized resources.

## ★ 04

Daily releases, zero deployment downtime, and no more manual regression testing. AWS aided migration to microservices and allowed a distributed system to be built.

## ★ 05

Migration to the Amazon Web Service (AWS) cloud secured the platform. The solution also reduced the expenses on maintenance.



## Client Reference



*After deep refactoring and redeployment of our solution, we stopped encountering stability and performance issues. Thanks to the Intetics team, our solution is based on the newest and most efficient technologies.*

**VP R&D**

## Benefits and Results

- ★ The Client migrated with zero downtime or negative effect on operations. With the migration to AWS, the risk of the platform malfunctioning and collapsing due to human error or hosting provider disruption were eliminated.
- ★ Efficient collaboration between Intetics and the Client's in-house team made the migration smooth for the end-users. 1.7M user accounts along with CVs were carefully migrated without data leakage.
- ★ The platform became empowered by AWS technologies with enhanced features and better services. The Intetics team continues to support the platform and the development.

### Techstack:

AWS, Java 11, Spring, Quarkus, Angular 10, SQL Server, NodeJs, Solr, Elasticsearch, Redis, React, Ansible, Terraform, Docker, Nginx, Amazon, GitHub, Lambda, Amazon CloudFront, Apache ZooKeeper, WordPress, Spring, Amazon RDS, Amazon, Python, DynamoDB, MySQL, PostgreSQL, Jenkins

### Team: 15

Project Manager, System Architect, Team Leads, Developers, QA Engineers