

App Dev Capabilities & Case Studies

2024

V 1.3

Corporate Overview

Year of Incorporation



- 2002

Team



- 650+ Employees

Footprint



- India
- USA
- Singapore
- Canada

Portfolio



- Technology Services
- Software Solutions
- Software Reselling

Verticals



- Banking
- Insurance
- Capital Markets
- Financial Services
- Pharma

■ App Modernization with Microservices

- Re-architecting of a traditional web application to align with microservices architecture

■ Technology

- ▲ Node.js
- ▲ Docker
- ▲ AWS

■ Health Returns Score

- Developing services for computation and redemption of health returns based on health-related activities performed by policy holder

■ Technology

- ▲ Java + Spring Boot
- ▲ Kubernetes
- ▲ MySQL

■ Contactless Entry

- Development of a mobile application for contactless entry and exit at schools

■ Technology

- ▲ AWS API Gateway
- ▲ React Native
- ▲ Node.js

Client Logos



HAYSTREAM

invescence 



Case Studies – Modern Applications

App Modernization with Microservices



CLIENTS

The Client

The client is a new entrant in the e-commerce space in the US and has tie-ups with several well-known brands across 100 countries. The client has grown at a fast pace and has added hundreds of customers with revenues more than doubling year over year.



Business Need

The client wanted to redesign their currently monolithic web application to meet agility and scalability requirements imposed by growing number of customers and the resultant increase in business volumes.



The Solution

MindCraft proposed a microservices based architecture that would separate the user experience from the business logic and processing. Business functionality was spread across multiple Node.js based microservices, each contained in discreet docker containers. These containers were deployed to the Elastic Container Service (ECS), thereby providing the application unlimited scaling capabilities using the auto-scaling features of ECS clusters.



Tools & Technology

- Node.js
- Dockers
- AWS



Business Outcome

Increased agility with an ability to quickly and continuously deliver changes became possible. The client has a highly resilient and robust platform to afford 24x7x365 operations despite some component level outages.

Health Returns Score



The Client

One of the renowned insurance companies, part of a large financial group, offering several health insurance products.



Business Need

The client wished to offer a feature to capture health and fitness related activities of its customers and provide a mechanism to reward such activities using reward points that could then be redeemed to avail discounts on future premiums



The Solution

MindCraft implemented a services-based application that allowed posting of health data, computing of reward-points and finally redemption of reward points during the quotation process. Restful services were built using Spring Boot that were then packaged into docker containers and pushed to a Kubernetes Service on a public cloud. The services referred to database-driven rules for computation. All features including audit and traceback were made available to deal with any queries related to computation or discounting. The Kubernetes platform provided the scale required during periods of increased volumes such as month end and quarter end.



Tools & Technology

- Java + Spring Boot
- Kubernetes
- MySQL



Business Outcome

The service-oriented architecture of this solution allowed several applications to interact with it thereby eliminating the need to store and synchronize data. It saved the client significant costs in building and maintaining this functionality through customization in core insurance systems.

Contactless Entry



The Client

The client is a global leader in socially responsible school communications. Used by over 1,400 schools and 1.6 million parents, their solutions help schools reduce operating costs and increase parent engagement.



Business Need

With the COVID-19 outbreak, it has become essential to track visitors coming to office premises. To avoid contact and further risk of exposure, contactless access is just what schools need.



The Solution

MindCraft developed and released an app, AccioSafe, that facilitates contactless entry and exit of visitors to school premises. AccioSafe runs on all Android and iOS devices and can help visitors avoid contact and further risk of exposure by providing contactless access to school premises. This simple app is very easy to use, completely secure and perfect for schools with multiple locations and entry / exit points. This solution was developed as a ready to use one, with near zero setup requirement. AccioSafe is available as both a white-label and hosted solution.



Tools & Technology

- React Native
- Node.js
- Amazon ECS



Business Outcome

The solution, AccioSafe is a quick & simple business solution that provides contactless entry & exit, is completely secure and easy to use. Schools get access to detailed reports that make tracking and management of visitor information easy.

Thank You!



New Jersey, USA

Mumbai, India

Singapore


USA
MindCraft America, Inc.
www.mindcraftamerica.com
sales@mindcraftamerica.com


INDIA
MindCraft Software Pvt. Ltd.
www.mindcraft.in
sales@mindcraft.in


SINGAPORE
MindCraft Singapore Pte. Ltd.
www.mindcraft.com.sg
sales@mindcraft.com.sg