NANYANG TECHNOLOGICAL UNIVERSITY SINGAPORE

School of Computer Science and Engineering
College of Engineering

# Integrated Data Science Platform

## A platform that:

(1) provides educational materials

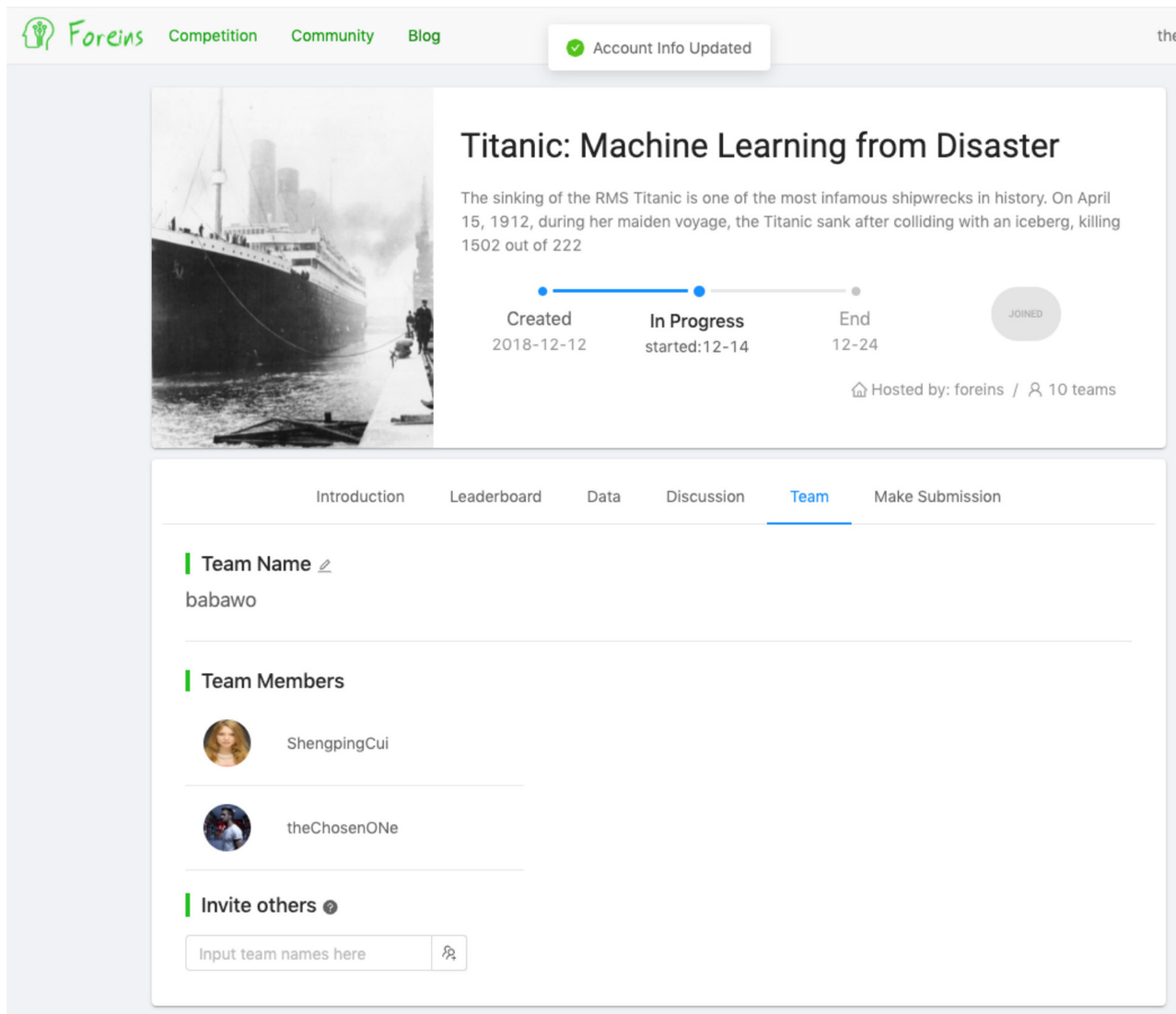
(2) facilitates communication of ideas

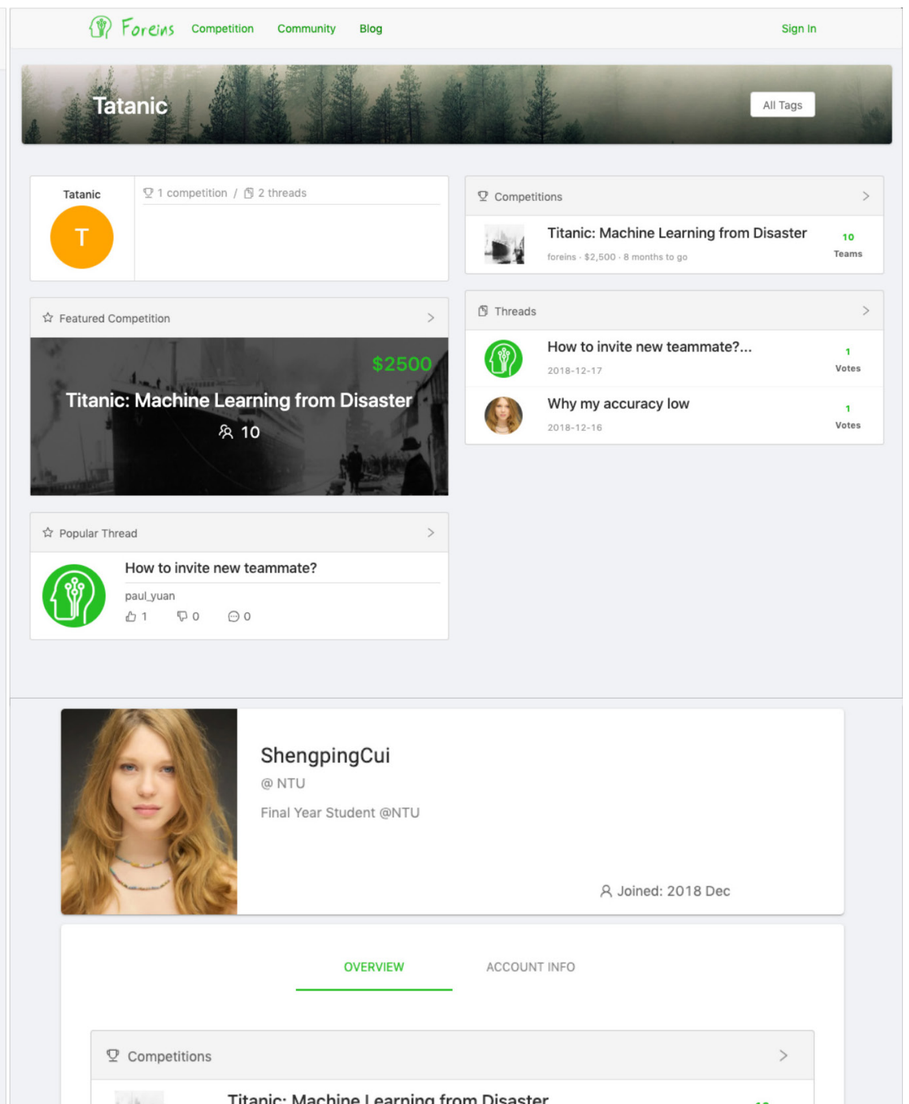
(3) bridges the gap between the talents and businesses to solve real world problems.

Foreins
Forest inspiration

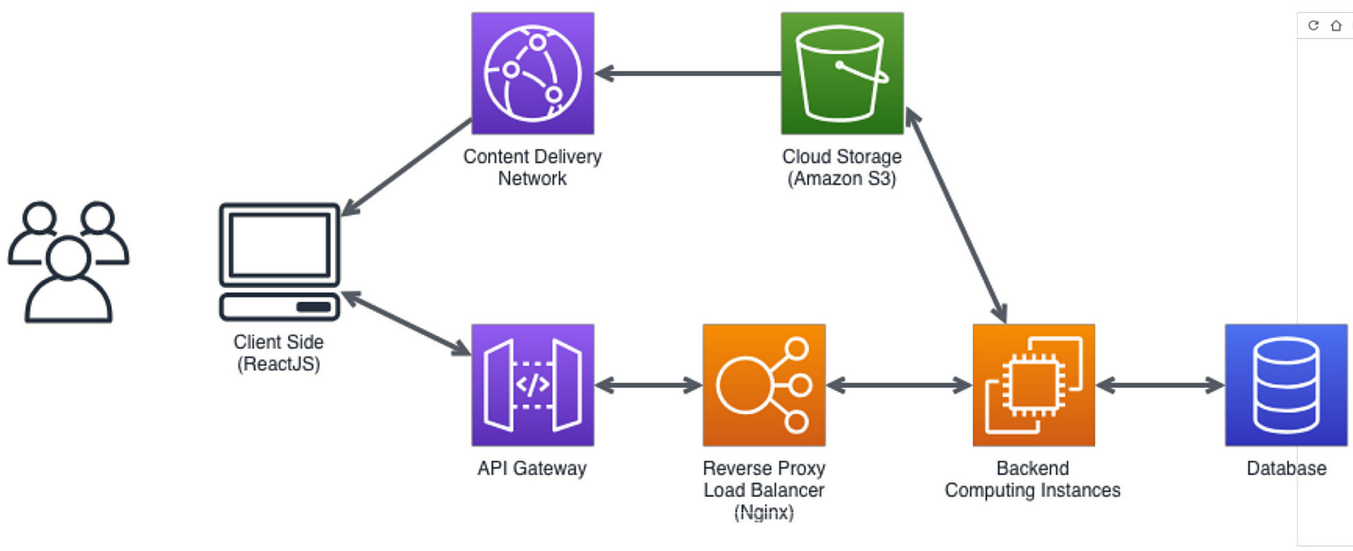
## Technology Stack:

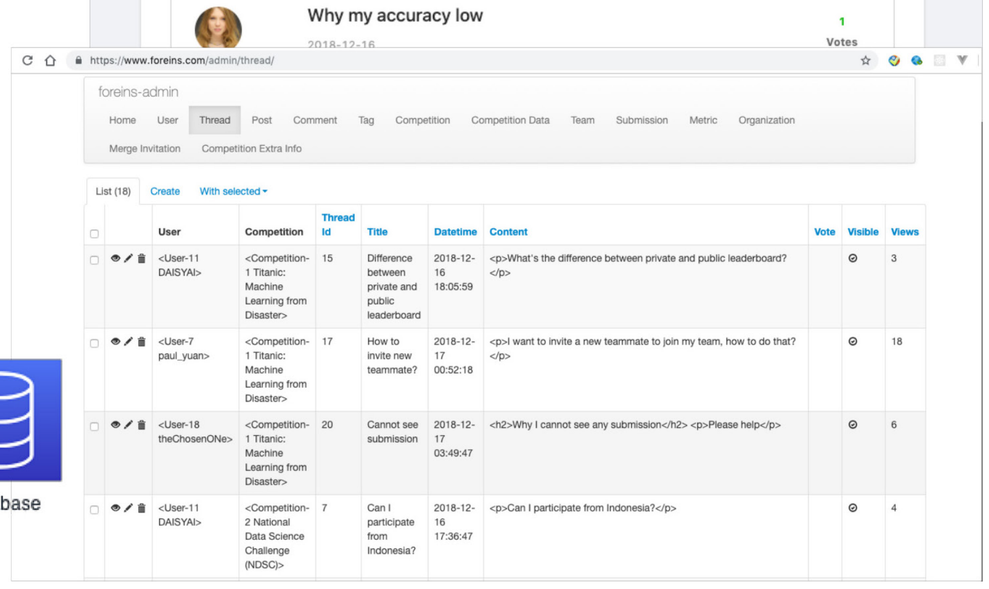
(1) AWS
(2) Nginx
(3) React JS + Redux
(4) Flask
(5) Gunicorn
(6) MySQL




# Full Stack Development




The development was essentially full-stack as the implementation ranges from the database all the way to the front-end UI. The knowledge acquired through this project covers a wide range of computer science topics, from the high-level system architecture design to the lower level operating system and computer network.

An efficient content delivery network was utilized to distribute large dataset across different regions. Various security mechanisms were implemented as the platform is available to public with many service endpoints exposed.

While there were many challenges in developing such a complex system in a tight time frame, the platform was successfully delivered

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