

Improved cost-effectiveness and elevated user experience for a leading supplier of mechanical parts



About the Client

Established in 2013, is a leading supplier of

custom mechanical parts It enables entrepreneurs to easily submit their custom parts

requirements—like specification files or

3D designs—through their online platform It offers clients a diverse range

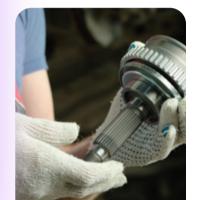
of usage, shipping, and payment options to enhance convenience and streamline operations It is widely recognized as the Airbnb of the manufacturing industry

Its analyzes its database and delivers a quote based on the client company's algorithm, considering factors like the amount of material and time required

It capitalizes on the volume of orders throughout its network and allows customers to order parts for machines at prices significantly lower than those from direct machine operators







Business Needs

 $\stackrel{\textstyle \hookrightarrow}{\rightarrow}$ Optimize the scheduling of work orders for manufacturing partners (MPs) by choosing between the 'Push' and the 'Pull' methods:

> The 'Push' method involves sending work orders based on demand planning, while the 'Pull' method allows MPs to access work according to their capacity

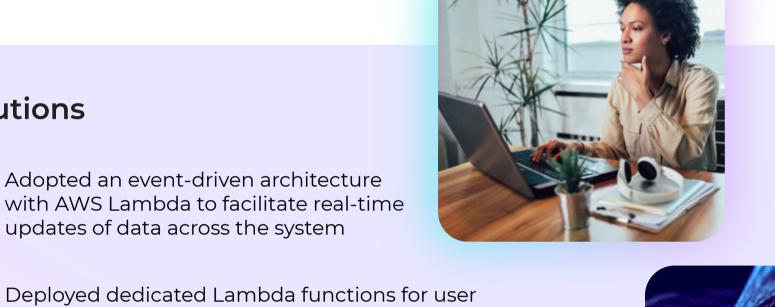


To optimize the efficiency and responsiveness of the process by balancing anticipated demands with the actual abilities of the partners



Solutions

- Adopted an event-driven architecture with AWS Lambda to facilitate real-time updates of data across the system
- authentication, connection management, message broadcasting, and dynamic event handling, along with the architecture to ensure efficient scaling and rapid response times
- Enhanced the system to align job status across system, preventing multiple acceptances of the same job









rechnology Stack

Development











Database



AWS services

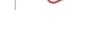
amazon















AWS CLOUDFORMATION











Amazon EBS













DynamoDB

Business Impact



Enhanced user engagement and experience within the application

Improved job availability for MPs by granting



access to a broad range of jobs and addressing known production capacity gaps Minimized the likelihood of missed opportunities



by facilitating dedicated time to review job offerings



the payout calculation to improve transaction margins



Minimized the manual efforts required to schedule jobs

Cybage Hi-Tech



Automotive

Retail



Market Research







Social &

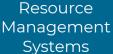


ç≣ # Enterprise Workflow Security

Platforms

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Collaboration Platforms



Optimizing workflow and enhancing efficiency with tailored solutions

Solutions &

Rules Engine





