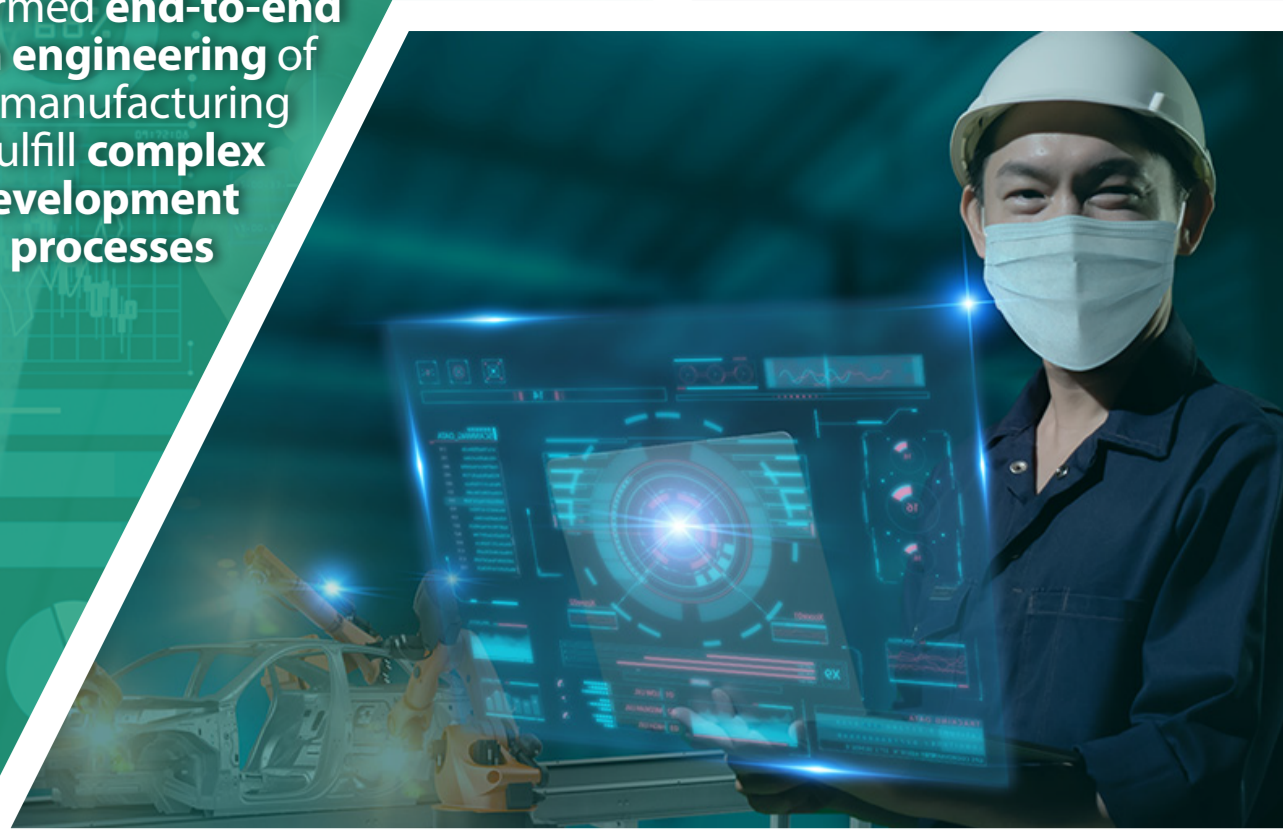


Performed **end-to-end platform engineering** of a digital manufacturing platform to fulfill **complex product development processes**



About the Client

- A **digital manufacturing platform** delivering custom parts on demand to help companies accelerate new product introductions
- **Caters to the Silicon Valley innovators** besides the healthcare, automotive, aerospace, and consumer electronics industries
- Has a global network of **250+ highly vetted manufacturing partners** and has manufactured **12M+ parts**



Business Needs



Upgrade legacy technology stack and develop a manufacturing platform that can evolve and adopt changes at the rate of software advancement and can pair with intelligent workflows



Develop a means to achieve collaboration between a global network of pre-vetted manufacturing partners and users looking forward to manufacture parts



Reduce manual efforts from product prototyping to production and eliminate redundant activities



Streamline operations to focus on essential business requirements and better utilization of capital and resources



Improve functionalities in the online portal for detailed customer interaction to enhance user experience



TECHNOLOGY SOLUTIONS

- Built a web-based portal using multiple disparate polyglot technologies, including ODOO ERP, AWS, Node, and React
- Implemented AWS for storage and integrated functionalities with backend ERP
- Enhanced security, integrity, and robustness of frontend and backend systems
- Seamlessly integrated legacy application data into new cutting-edge tech-based applications
- Induced automation in Verification and Validation by leveraging Fusion (Cybage's test automation framework) along with multi-platform test engineering
- Introduced a new interface between database and portal for mediating communication

PEOPLE AND PROCESS SOLUTIONS

- Improved reporting and analytics by introducing new reports and enhanced user interaction
- Created KPIs for change monitoring and faster deployment of enhancements
- Performed migration to newer testing frameworks and resolved backward compatibility issues
- Developed seamless Quote Generation, Intelligent Scheduling, Shipment and Payment, and Order Management functionalities

Solutions

Business Benefits

- Enabled **12M+ parts to be manufactured** via new platform
- Facilitated **business and clientele expansion on the platform through 250+ manufacturing partner network**
- **Effectuated ~40% cost savings in data management** through effective migration of existing data to modern cloud-based data storage platform
- **Minimized time-to-production and accelerated validation of new enhancements** via automation capabilities for quicker development and deployment
- **Achieved speed-to-market and improved platform's time-to-recovery** by harnessing deep expertise in multivariate technologies
- **Amplified customer satisfaction** by improving responsiveness of the web-based portal and streamlining and automating business processes

Technology Stack

Development	python, RAILS, Bootstrap, node, React, JSLint, GraphQL
Verification and Validation	cypress.io, Selenium, Jira
CI/CD and DevOps	Jenkins, VAGRANT, puppet, git, sonarqube
Application Lifecycle Management	Jira Software, GitHub, slack, Confluence
Warehouse	aws, snowflake

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