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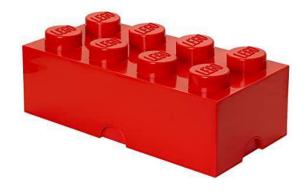
SF:



Marcel Cohen - President of MTech Systems

Research And Development And Our Vision

MTech - The Story

















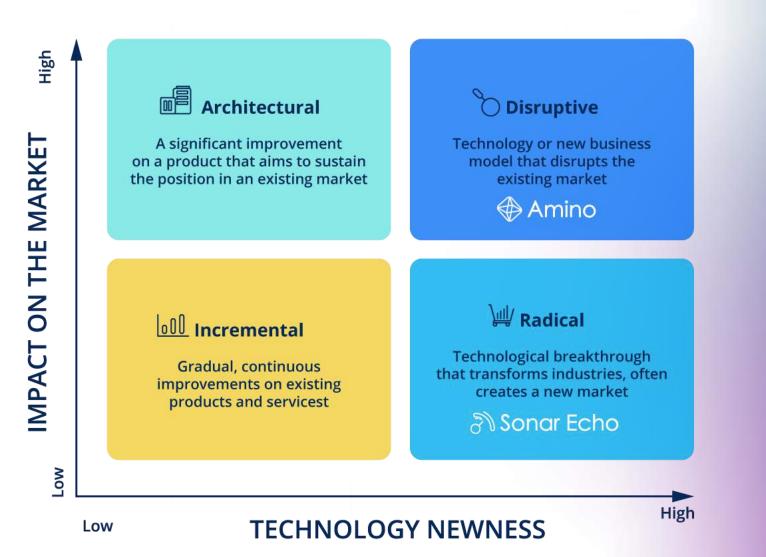








Four types of innovations

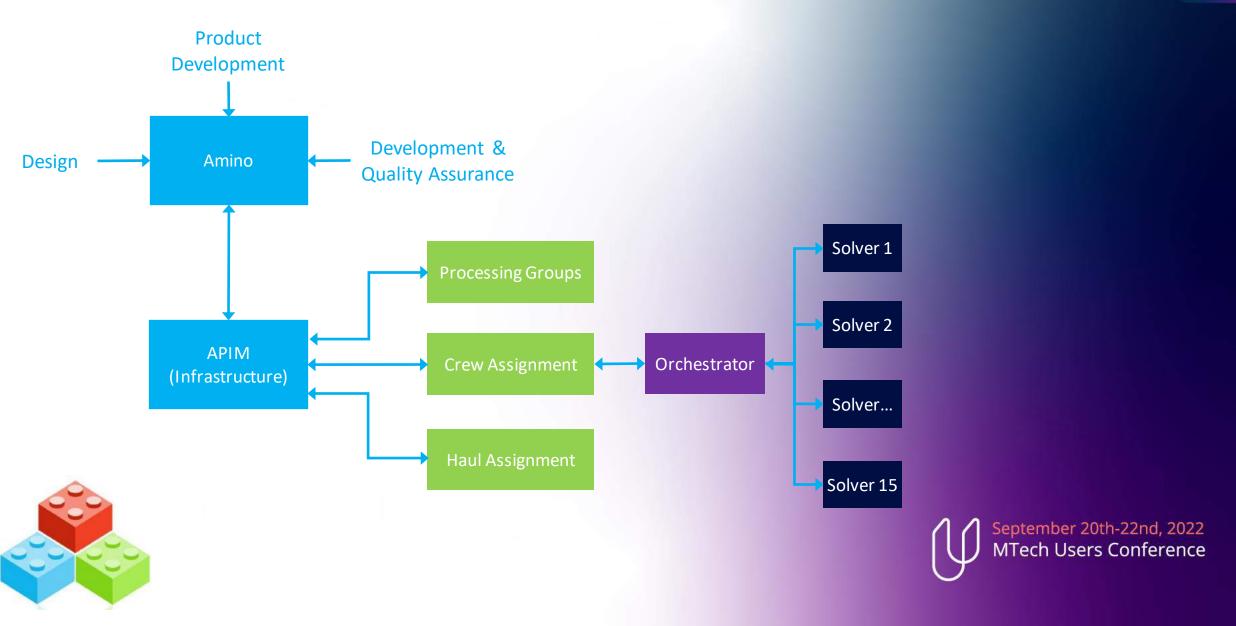


"You can't just ask customers what they want and then try to give that to them. By the time you get it built, they'll want something new." *Steve Jobs*



September 20th-22nd, 2022 MTech Users Conference

Live Haul Logistics



V

Research and Development

Amino Sonar Echo

Software as a Service

🔁 Quality Control

Our Experience

🗍 Security

Data Science

Data & Analytics

🔏 En

Environment

"You can't solve a problem on the same level that it was created. You have to rise above it to the next level." *Albert Einstein*.



September 20th-22nd, 2022 MTech Users Conference

Software as a Service

• We provide end-to-end management of the solution from installation to upgrade with continuous improvement.

- Developed a product that fully leverages cloud infrastructure
 - Elastically scalable, easy to use, reduces cost and enhances security
 - No more local server updates or downtime, OS compatibility issues,
- Automated monitoring for error tracking and performance issues

• SSO/MFA

- High availability solution with robust Recovery Point Objective (RPO) and Recover Time Objective (RTO).
- DBA's and Security Team dedicated to environment optimization

A sustainable business.

Application \rightarrow environment \rightarrow performance monitoring and optimizations \rightarrow updates and releases \rightarrow QA \rightarrow development



🔁 Quality Control

- Created a team with 15% of the work force.
- Three tier testing: Backend (CAT), Front End (Testim), manual.
- Created Continue integration and continue deployment (CI/CD) pipelines for building/testing code.
- Eliminated redundancies and multi step processes from older versions allowing our QA testing to be simpler and faster.
- In progress of transforming our QA team from QA testers to QA Analysts.



How to communicate Success





💍 User Experience

- Product is designed to focus on a simpler and better user experience.
- Central pages for modules make it easy for the user to locate and work with the solution.
- Inventory is centralized so user works within a single screen.
- Planning dashboards provide users the full picture and ability to dynamically view data.
- Wizards to walk users through the more complex processes.
- Pivot options for users to easily filter and chart data within the solution.
- Onboarding tools, documentation and tool tips to help the user navigate.

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[⊗] User Experience

- Advance Search: For purchases and sales transactions you can see all the details from order to invoice.
- Immediate access to dashboard and analytics for solutions like planning, global post and period end.
- Ability to create master data from transactions screens like driver, vehicles, etc.

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Security

•Annual audit for SOC 2 Type 2 Compliance Standards for the Trust Service Category of Security.

•Follow best practices such as OpenID Connect and OAuth 2.0 implemented by Azure AD B2C, which adds features like risk detection.

•Code is automatically passing through SonarQube and WhiteSource Bolt, which checks for code that is poorly written or introduces vulnerabilities.

•Ongoing cyber-security training for staff that occurs twice yearly.

•Implemented Transparent Data Encryption which encrypts the data at rest.

•Code checked into source code control continues to go through a multi-level review process.

•Rolled out advanced endpoint protection to SaaS architectures (Microsoft Defender for Cloud).

•Networks are connected to Security Event and Incident Management (SEIM) system which are analyzed in real-time by independent Security Operations Center. "There are only two types of companies: those that have been hacked, and those that will be." *Robert Mueller, FBI Director, 2012.*



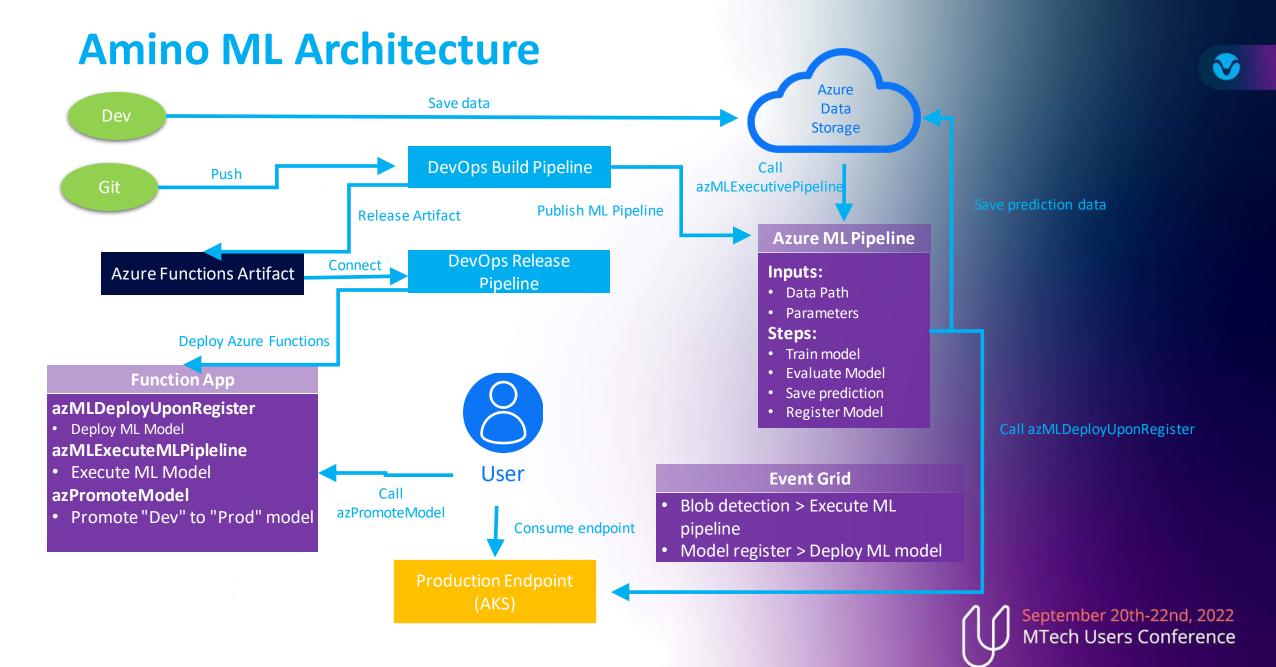


Data Science

- Improved on scheduling optimization through better algorithms and cloud computing.
- Created 5th generation Sonar weight algorithm and working on a scaleless weight prediction.
- Created new feed consumption anomaly detection and projection models to minimize haul backs.
- Created full suite ML projection and retraining pipeline for Amino with automatic drift detection.
- Short term work includes optimizing feed delivery scheduling, MRP, FFA with FCR minimization, breeder placement scheduling, sonar data insights and guided analytics.







Data & Analytics

•Data integration packages available and compatible with different ERP solution, processing plant, batching, feed formulation and loadout systems.

•Currently developing standard API's for simple data imports and exports in Amino.

•Business knowledge built into our solution that allows extracting, transforming and loading massive volumes of data efficiently

•Continuously improving and increasing our standard and out-of-the-box reports.

•Combining Protein and best BI practices into a guided analytics solution for Axis.





Environment

Paving the way for sustainable agriculture

- Sustainability module in Amino tackling environmental concerns in agriculture
 - Emissions
 - Water
 - Energy
 - Nutrients
- Created carbon calculator V1 Allows informed decision making on emission reductions while providing reports for national and international submission

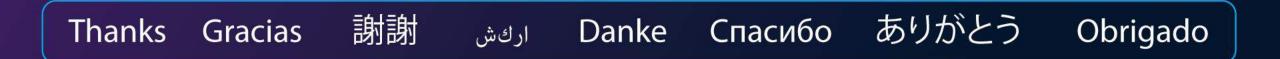


Sonar IoT – connect your farm



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mtechsystems.io