Artificial Intelligence
REVOLUTION

Presented by

Mill Pond
— Research —

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We Need You to **Change the World**

- The Internet fundamentally changed the way we conduct business
  - AI will significantly impact business – just like the “internet”.
- Businesses need to adopt long-term AI strategies – 3 years, 5 years, 10 years.
- Artificial Intelligence space is rapidly evolving – reluctant companies will not survive.
- SaaS solutions will never be as beneficial as in-house custom solutions.
- AI will redefine the world of business – all departments and industries will be affected.
- Mill Pond Research’s goal is to help businesses establish their own “intelligence departments”.

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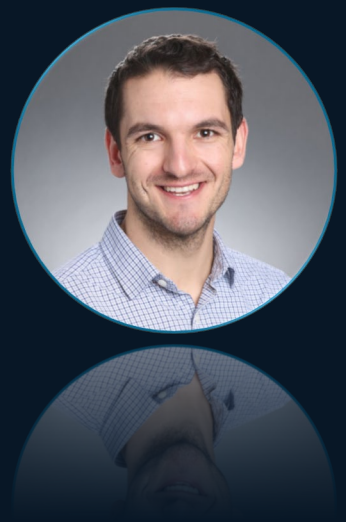
About Us **Meet the Team**

Pete Shimshock

Cofounder, CAIO

System Architect + Technologist
2023 CODiE for Best Event Technology (tied with Cvent)
Live Nation, Travel Industry, Web Developer, Entrepreneur, Stanford Launchpad Incubator



Andrew Shimshock

Cofounder, COO

Santa Clara MBA
NASA IT Systems Integration
Salesforce Expertise
Marathon-runner

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Our Core Capabilities

- Members of the US AI Safety Institute Consortium (National Institute of Standards and Technology)
  - Federal AI Policy Experts
- Intelligence Solution Architecture
- Custom AI Environments
- Local Hardware Design & Construction
- Model Training & Optimization
- System Configuration & Tuning
- HTML/CSS/JavaScript/Tailwind/Node

SOLUTIONS

WorkBench
[AI "Swiss Army Knife"]

Generative AI workspace with multiple LLM models, plugins, and build AI agents through integrations or file upload.

PowerTool
[Specific Use Case]

Single-purpose custom-built AI agent to be integrated into customer or employee environment.

SandBox
[Private AI Infastructure]

Hybrid in-house AI solution – powers custom experiences for customers or employees.

RECENT ENGAGEMENTS

Developed Isolated Data Systems (NASA)
Spearheaded the creation of isolated data systems, enhancing secure data handling and analysis capabilities for critical NASA research projects.

Established Air-Gapped Computing Environments
Set up secure air-gapped computing environments to conduct highly sensitive tests, ensuring complete isolation from external networks and potential security threats.

Administered Classified and Non-Classified Network Environments
Managed sophisticated network infrastructures in both open and classified settings, ensuring robust security and continuous system integrity.

Developed Real-Time Data Visualization Software
Engineered advanced software solutions for real-time data visualization within isolated environments, significantly improving the analysis and interaction with live data streams.

Built Cloud Solutions in Secure Environments
Pioneered the use of "skinny" client solutions within secured environments, optimizing performance while maintaining stringent security measures and compliance.

Public Sector Digital Platforms
Working in partnership with GovExec, our team built and ran the technology for events like State of Defense Series for the Army, Navy, Air Force, Space Force, and Marines, Salesforce Public Sector Summit, Deloitte's Great Debate Series, and the Evening of Honors (formerly the GovExec Government Hall of Fame).

PARTNERS + PROVIDERS

ANTHROPIC
NVIDIA
Google
OpenRouter
IBM
OpenAI
LangChain
Weaviate

600+ SaaS INTEGRATIONS

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Systems Overview

Our goal is to help companies create long-lasting AI systems, assist with adoption across the organization, train users, & maintain AI systems.

- **Open-source software**
  - Our clients “own” their systems – let them tune and optimize as they see fit.
- **Private hardware**
  - Our clients require the highest levels of security – we will leverage US-based systems and pay premiums required for client “peace of mind”.

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Clients Overview

We provide award-winning tailor-made white glove services to 100% of our clients.

- **Hero Makers**
  - We turn our clients into heroes at their business – our mission is to be the best decision of their career by trusting us as their AI solution provider. “Over-delivered, underbudget, ahead of schedule” are our standards.
- **Public Sector**
  - We are American citizens who serve at the interests of the United States.
- **Private Sector**
  - Our goal is to position ourselves in key strategic positions to develop long-term business relationships as to create significant market penetration without heavy marketing costs.

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Customizable Solutions

[*Swiss Army Knife*]

WorkBench

Generative AI workspace with multiple LLM models, plugins, and build AI agents through integrations or file upload.

Start Here | *Same Day Start*

[Specific Use Case]

PowerTool

Custom-built AI agent to be integrated into customer or employee environment.

Next Step | *Next Day Start*

[Private *AI Foundation*]

SandBox

Hybrid private in-house AI solution – powers custom experiences for customers or employees.

Futureproof | *In-Development*

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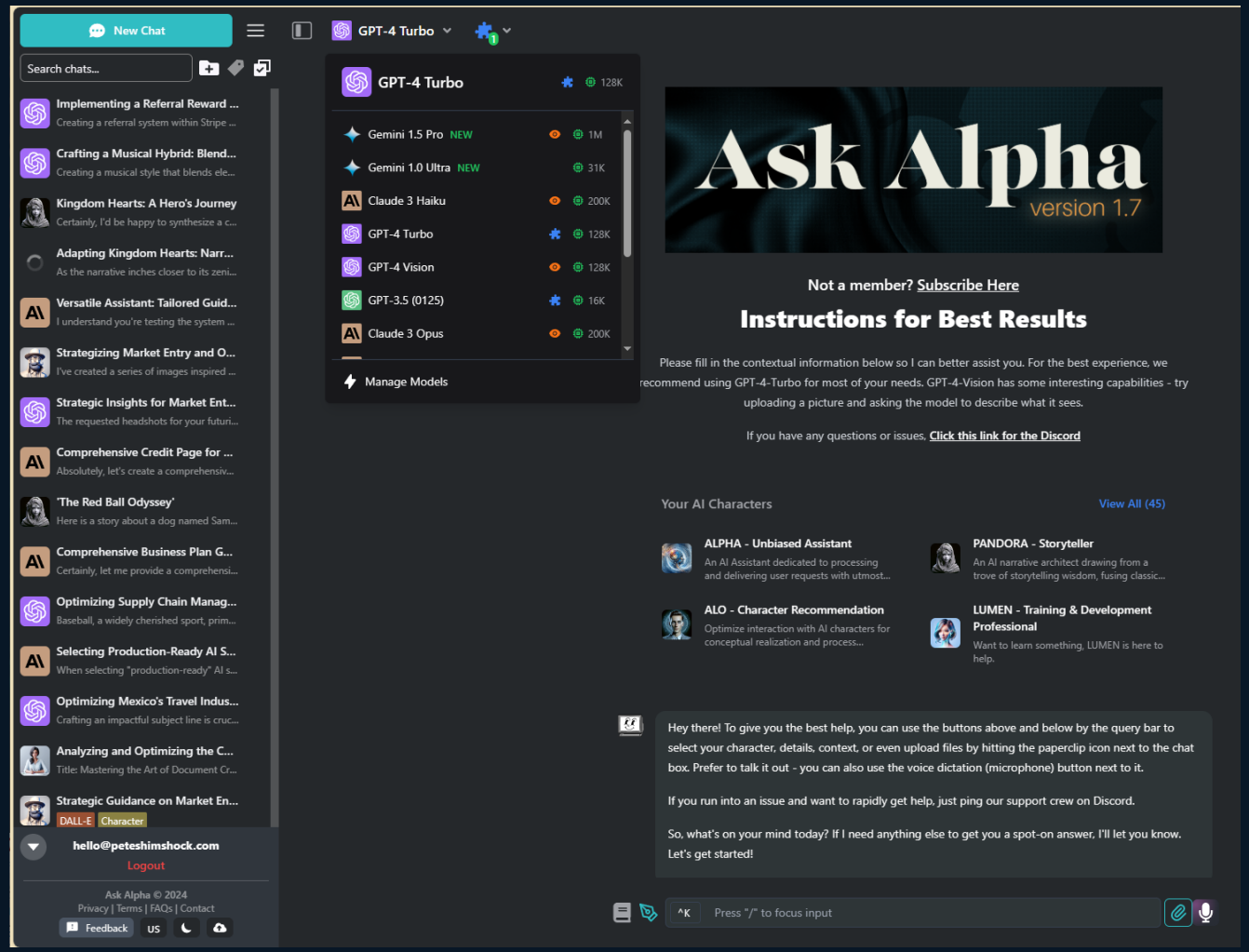
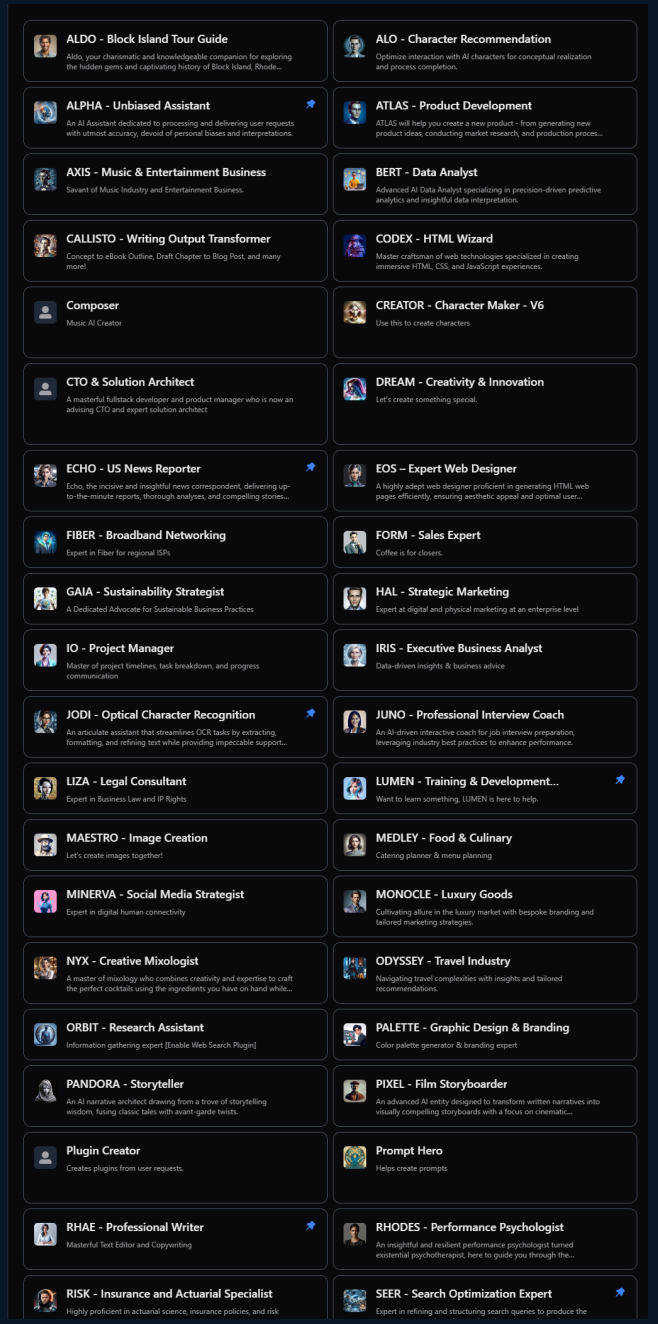
Workbench





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Workbench Overview

- Latest models from OpenAI, Anthropic, Google, Meta, and the open-source community.
- **Plugins** - Web search, market news, image search, image generation (SD or DALL-E)
- **Contextual Library** – Apply knowledge to the whole system or isolate to individual agents. Upload files or connect to external sources
- **Agents** – 100+ AI agents with unique knowledge and personalitites.

Text-to-speech | Voice input | Embeddable widget | Customizable

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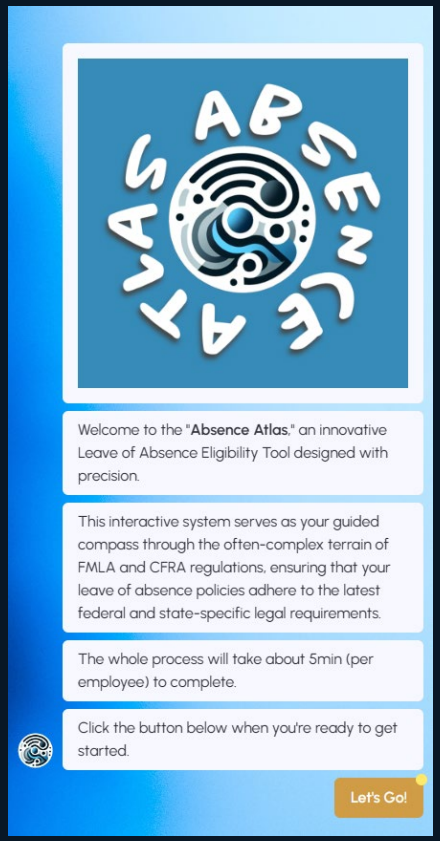
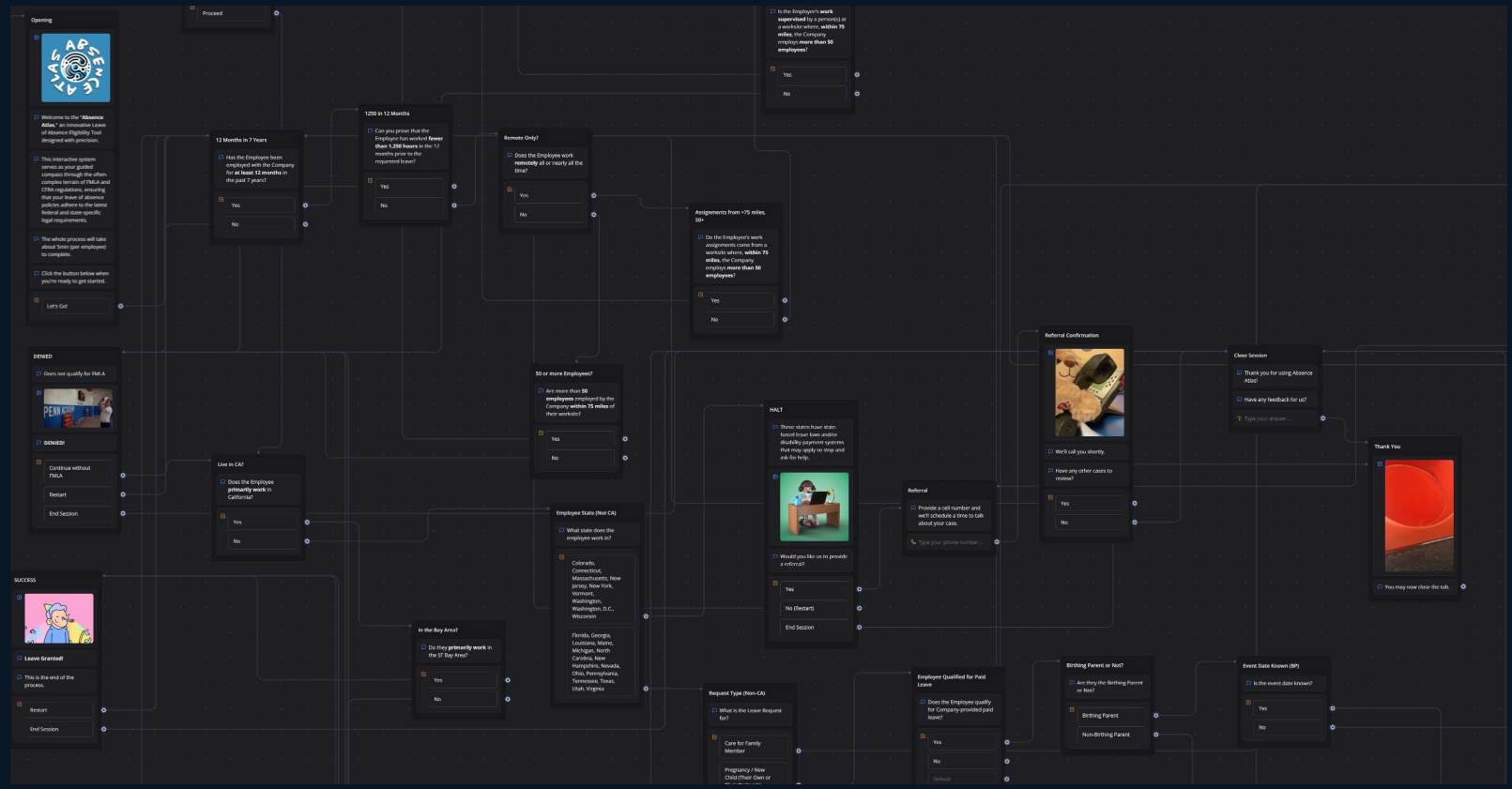
PowerTool





Absence Atlas is a proprietary employment law conversationally-driven AI tool to assist businesses with determining if employees are eligible for paid leave based on a complicated legal process. Uses conditional logic and conversational AI.

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PowerTool Overview

- Single-purpose AI solution for a particular task or outcome for customer or employee experiences
- Managed AI solution (includes API fees, monitoring, and maintenance).
- Conversational, structured, or audio-driven
- Perfect for Marketing, Customer Support, Sales, or IT Support.
- Creates zero-party data stream.

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SandBox

- Dedicated hardware for Private AI
- Hybrid (local or cloud)
- Visual no-code AIDE (AI Development Environment)
- Model Agnostic
- Open Source

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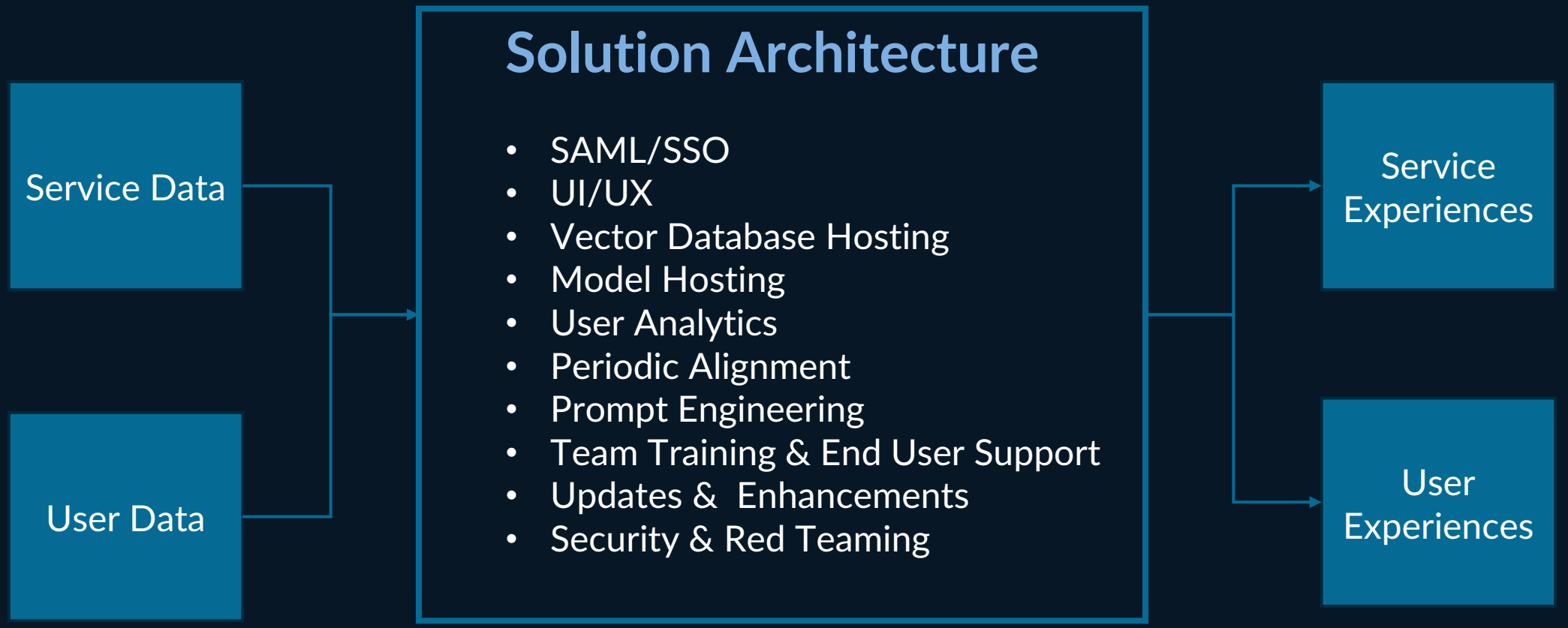
SandBox Overview



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Potential Future **IaaS Solutions**

Recommendations

By analyzing past purchase and browsing data, AI can suggest products that customers are more likely to buy, enhancing the shopping experience.

Language Processing

AI outperforms humans in processing and analyzing large volumes of text. It can translate languages, summarize articles, and even generate content at a scale impractical for humans.

Repetitive Process Automation (RPA)

AI can execute repetitive tasks with consistent precision, which is beneficial in manufacturing and quality control processes. Unlike humans, AI does not suffer from fatigue or boredom, which can lead to errors.

Decision Making

AI can make informed decisions by weighing massive amounts of data and considering countless potential outcomes, which is particularly useful in strategic game playing and in business scenarios that involve risk assessment.

Pattern Recognition

AI is particularly adept at recognizing patterns, whether in visual data, such as images and videos, or structured data, like spreadsheets and databases.

Optimization

AI is better at solving complex optimization problems, such as route planning for logistics, resource allocation, and scheduling, due to its ability to rapidly evaluate numerous possible scenarios and find the most efficient solution.

Personalization

AI can analyze individual customer data to tailor marketing messages and offers, increasing engagement and conversion rates.

Mass-Customization

AI can tailor educational content and learning paths based on a user's progress and performance, making online learning more effective.

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Thank You!

for your time and consideration.

- Andrew + Pete

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