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# Artificial Intelligence **REVOLUTION**

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*Presented by*

**Mill Pond**  
– Research –

# 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”.

# 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

# 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 Infrastructure]

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

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”.

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.

# 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*

# Mill Pond — Research —

# Workbench

**Ask Alpha**  
version 1.7

Not a member? [Subscribe Here](#)

### Instructions for Best Results

Please fill in the contextual information below so I can better assist you. For the best experience, we recommend using GPT-4-Turbo for most of your needs. GPT-4-Vision has some interesting capabilities - try uploading a picture and asking the model to describe what it sees.

If you have any questions or issues, [Click this link for the Discord](#)

#### Your AI Characters [View All \(45\)](#)

- ALPHA - Unbiased Assistant**  
An AI Assistant dedicated to processing and delivering user requests with utmost accuracy, devoid of personal biases and interpretations.
- PANDORA - Storyteller**  
An AI narrative architect drawing from a trove of storytelling wisdom, fusing classic...
- ALO - Character Recommendation**  
Optimize interaction with AI characters for conceptual realization and process...
- LUMEN - Training & Development Professional**  
Want to learn something, LUMEN is here to help.

Hey there! To give you the best help, you can use the buttons above and below by the query bar to select your character, details, context, or even upload files by hitting the paperclip icon next to the chat box. Prefer to talk it out - you can also use the voice dictation (microphone) button next to it.

If you run into an issue and want to rapidly get help, just ping our support crew on Discord.

So, what's on your mind today? If I need anything else to get you a spot-on answer, I'll let you know. Let's get started!


<b>ALDO - Block Island Tour Guide</b> ALDO, your charismatic and knowledgeable companion for exploring the hidden gems and captivating history of Block Island, Rhode...	<b>ALO - Character Recommendation</b> Optimize interaction with AI characters for conceptual realization and process completion.
<b>ALPHA - Unbiased Assistant</b> An AI Assistant dedicated to processing and delivering user requests with utmost accuracy, devoid of personal biases and interpretations.	<b>ATLAS - Product Development</b> ATLAS will help you create a new product - from generating new product ideas, conducting market research, and production proces...
<b>AXIS - Music &amp; Entertainment Business</b> Savant of Music Industry and Entertainment Business.	<b>BERT - Data Analyst</b> Advanced AI Data Analyst specializing in precision-driven predictive analytics and insightful data interpretation.
<b>CALLISTO - Writing Output Transformer</b> Concept to eBook Outline, Draft Chapter to Blog Post, and many more!	<b>CODEX - HTML Wizard</b> Master craftsman of web technologies specialized in creating immersive HTML, CSS, and JavaScript experiences.
<b>Composer</b> Music AI Creator	<b>CREATOR - Character Maker - V6</b> Use this to create characters
<b>CTO &amp; Solution Architect</b> A masterful fullstack developer and product manager who is now an advising CTO and expert solution architect	<b>DREAM - Creativity &amp; Innovation</b> Let's create something special.
<b>ECHO - US News Reporter</b> Echo, the incisive and insightful news correspondent, delivering up-to-the-minute reports, thorough analyses, and compelling stories...	<b>EOS - Expert Web Designer</b> A highly adept web designer proficient in generating HTML web pages efficiently, ensuring aesthetic appeal and optimal user...
<b>FIBER - Broadband Networking</b> Expert in Fiber for regional ISPs.	<b>FORM - Sales Expert</b> Coffee is for closers.
<b>GAIA - Sustainability Strategist</b> A Dedicated Advocate for Sustainable Business Practices	<b>HAL - Strategic Marketing</b> Expert at digital and physical marketing at an enterprise level
<b>IO - Project Manager</b> Master of project timelines, task breakdown, and progress communication	<b>IRIS - Executive Business Analyst</b> Data-driven insights & business advice
<b>JODI - Optical Character Recognition</b> An articulate assistant that streamlines OCR tasks by extracting, formatting, and refining text while providing impeccable support...	<b>JUNO - Professional Interview Coach</b> An AI-driven interactive coach for job interview preparation, leveraging industry best practices to enhance performance.
<b>LIZA - Legal Consultant</b> Expert in Business Law and IP Rights	<b>LUMEN - Training &amp; Development...</b> Want to learn something, LUMEN is here to help.
<b>MAESTRO - Image Creation</b> Let's create images together!	<b>MEDLEY - Food &amp; Culinary</b> Catering planner & menu planning expert
<b>MINERVA - Social Media Strategist</b> Expert in digital human connectivity	<b>MONOCLE - Luxury Goods</b> Cultivating allure in the luxury market with bespoke branding and tailored marketing strategies.
<b>NYX - Creative Mixologist</b> A master of mixology who combines creativity and expertise to craft the perfect cocktails using the ingredients you have on hand while...	<b>ODYSSEY - Travel Industry</b> Navigating travel complexities with insights and tailored recommendations.
<b>ORBIT - Research Assistant</b> Information gathering expert [Enable Web Search Plugin]	<b>PALETTE - Graphic Design &amp; Branding</b> Color palette generator & branding expert
<b>PANDORA - Storyteller</b> An AI narrative architect drawing from a trove of storytelling wisdom, fusing classic tales with avant-garde twists.	<b>PIXEL - Film Storyboarder</b> An advanced AI entity designed to transform written narratives into visually compelling storyboards with a focus on cinematic...
<b>Plugin Creator</b> Creates plugins from user requests.	<b>Prompt Hero</b> Helps create prompts
<b>RHAE - Professional Writer</b> Masterful Text Editor and Copywriting	<b>RHODES - Performance Psychologist</b> An insightful and resilient performance psychologist turned existential psychotherapist, here to guide you through the...
<b>RISK - Insurance and Actuarial Specialist</b> Highly proficient in actuarial science, insurance policies, and risk	<b>SEER - Search Optimization Expert</b> Expert in refining and structuring search queries to produce the



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

# Mill Pond – Research –

# PowerTool



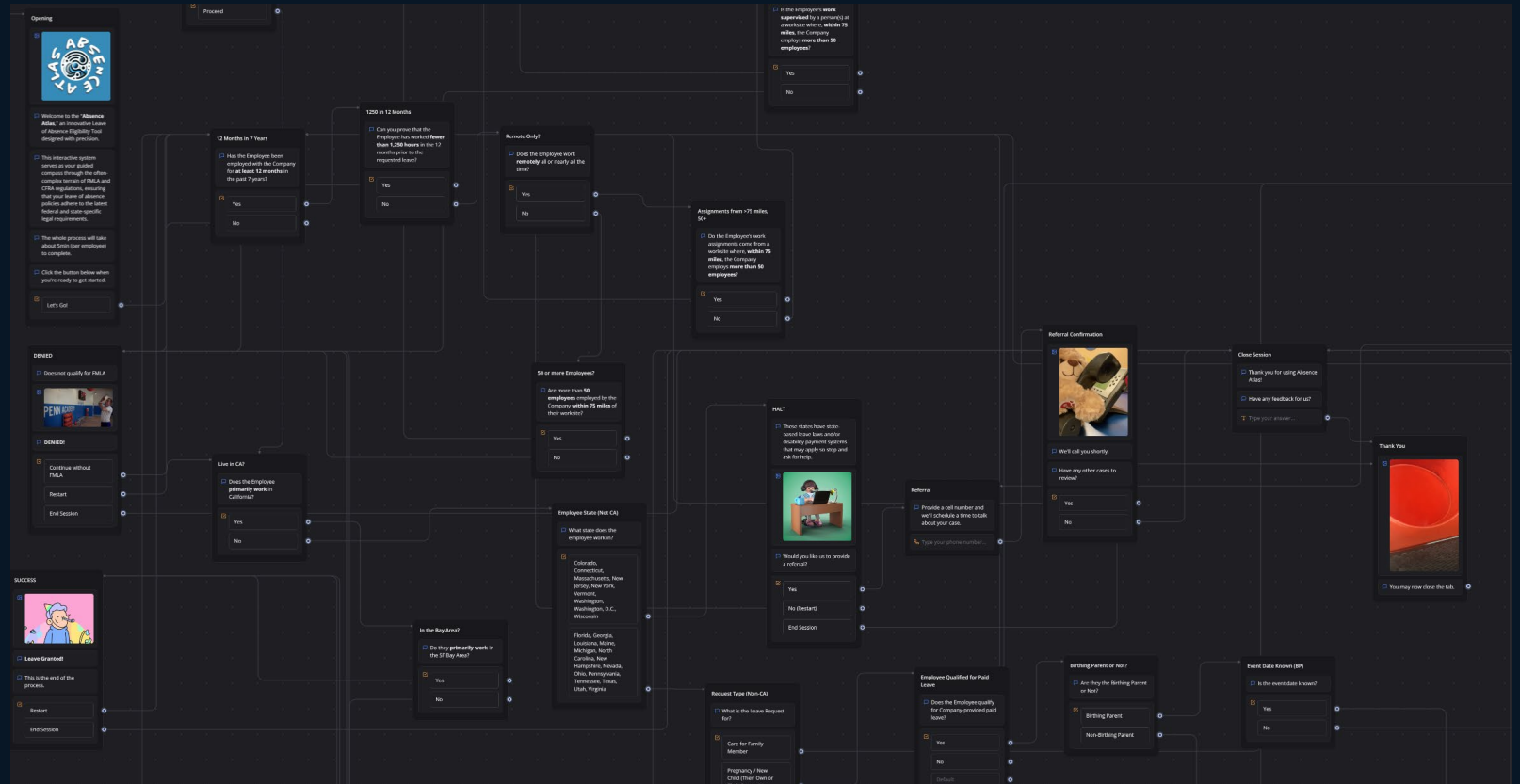
Welcome to the "Absence Atlas," an innovative Leave of Absence Eligibility Tool designed with precision.

This interactive system serves as your guided compass through the often-complex terrain of FMLA and CFRA regulations, ensuring that your leave of absence policies adhere to the latest federal and state-specific legal requirements.

The whole process will take about 5min (per employee) to complete.

Click the button below when you're ready to get started.

**Let's Go!**



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.

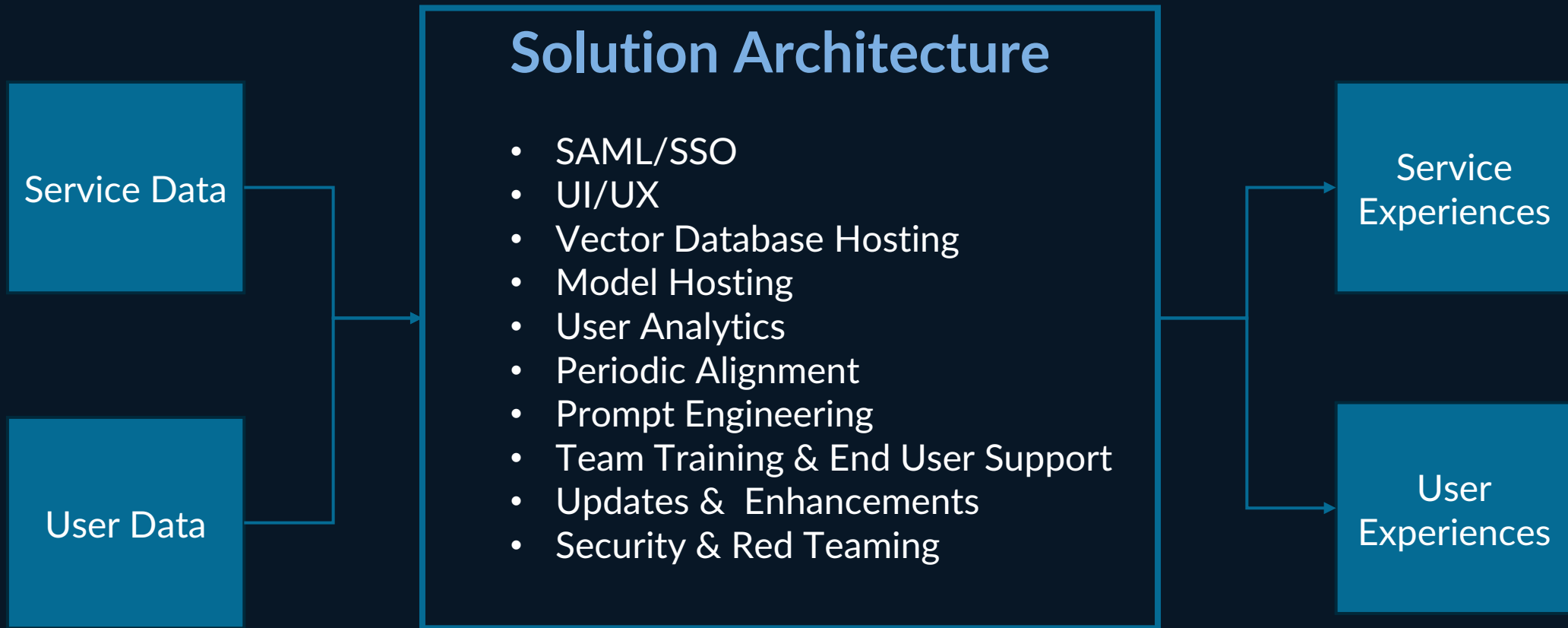
- Single-purpose AI solution for a particular task or outcome for customer or employee experiences
- Managed AI solution (includes API fees, monitoring, and maintenance).
- Conversational, structured, or audio-driven
- Perfect for Marketing, Customer Support, Sales, or IT Support.
- Creates zero-party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

# Mill Pond – Research –

# SandBox

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





## Recommendations

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

## 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.

## 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.

## 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.

## 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.

## Personalization

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

## 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.

## Mass-Customization

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

**MILL  
POND  
RESEARCH**

**Thank You!**

*for your time and consideration.*

*- Andrew + Pete*