



Cumulus

Liquid AI Compute

Our Team



Suryaa Rajinikanth
Co-Founder

- Helped build and scale [TensorDock](#), distributed GPU marketplace
- Worked on critical infrastructure at [Palantir](#)



Veer Shah
Co-Founder

- Senior Engineer at [AIRANACULUS](#)
- Building networking infrastructure for space/military communication
- 2+ years of customer facing experience



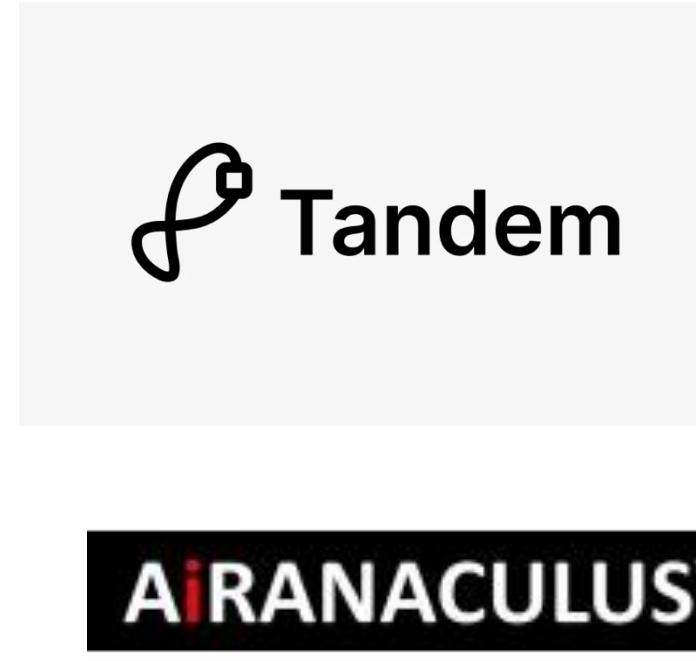
AIRANACULUS™

Developers Want Change



In the past week...

- We've reached out to 5+ startups and labs
- Validated strong demand for:
 - Elastic GPU scaling
 - Cheaper spot pricing
 - Easier deployment
 - Outcome oriented infrastructure



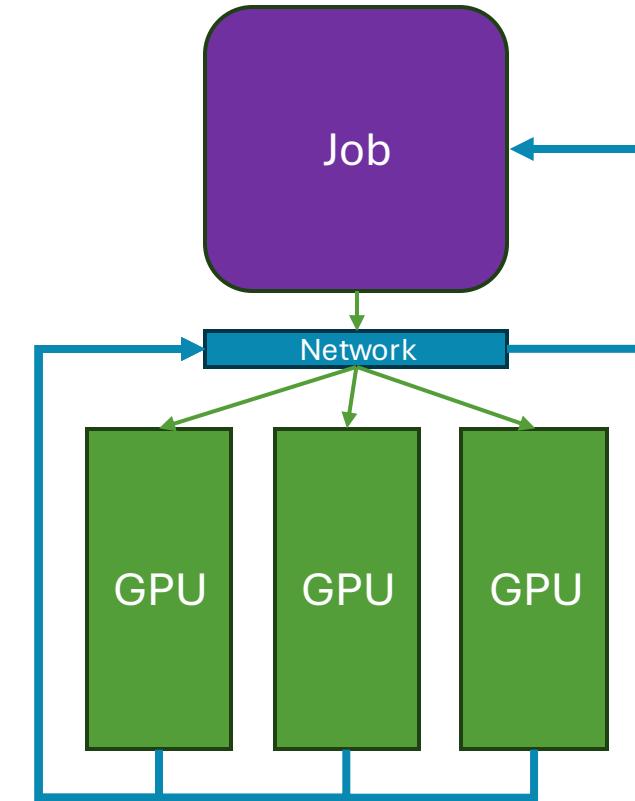
Firms will optimize their compute for cost & performance.

The GPU Cloud Crisis



Today's GPU clouds are **rigid and **inefficient**:**

- Expensive, inflexible pricing
- Hard to set up or scale without DevOps expertise
- No visibility into runtime tradeoffs:
 - 1x high-end GPU vs. 2x mid-tier GPUs?
 - Peak-time vs. off-peak costs?
 - Unknown until you pay for it.
- Users waste money, and providers waste GPUs.



- 1) Intercept calls from job
- 2) Split Across Pool GPUs
- 3) Aggregated and Returned

Minimal code changes required; Elastic Computing Model

Developers Are **Unsatisfied**



Adithya

AI @ Petra Security

- Receives new data to fine tune model but must batch for **efficiency**
- Spends too much on **scarce GPU** compute



Kartik

NLP @ GT

- Students and researchers wait in **long queues** on GPU cluster
- Progress constrained by **compute**

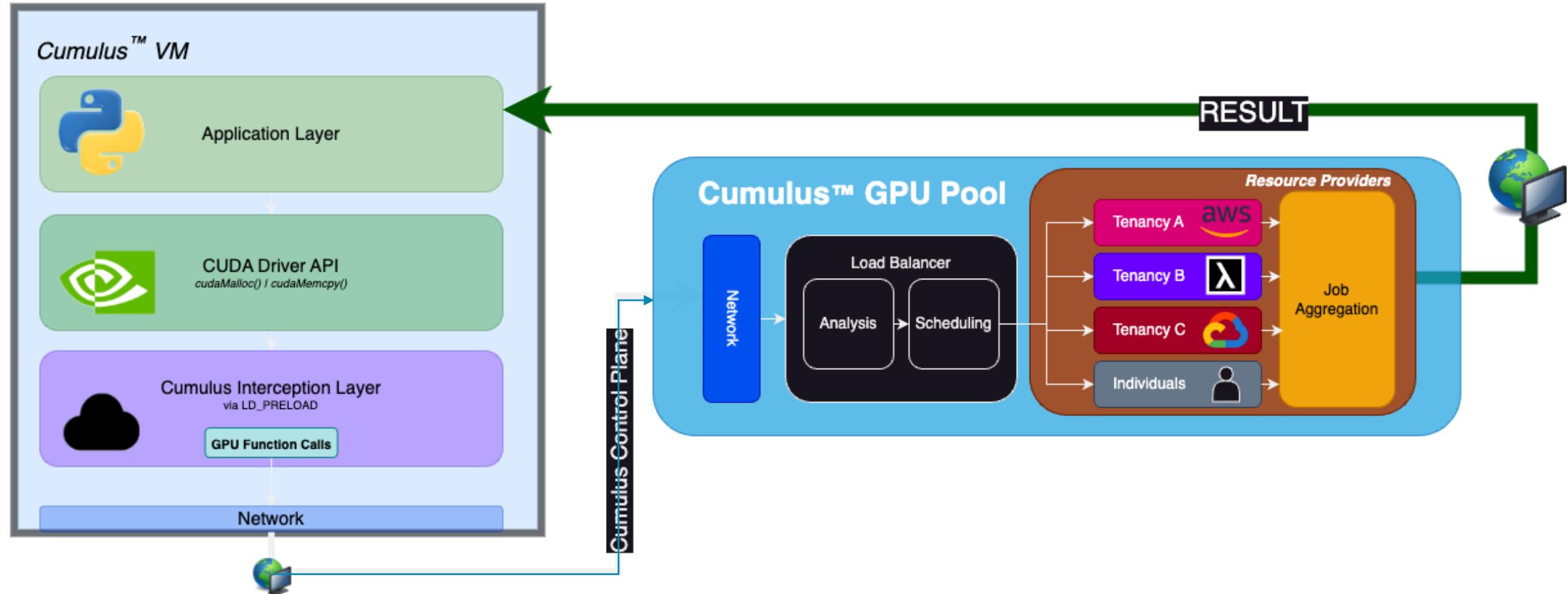


Arjun

Co-Founder @ Tandem

- Doesn't want to deal with infrastructure to fine tune models
- Constrained by **complexity & cost**

Product Workflow



Our Unique Advantages

1. Democratized Supply

- Leverages all cloud providers and unused consumer cards

2. Intelligent Orchestration

- Intercepts low-level CUDA calls from your workload
- Analyzes task characteristics in real-time
- Dynamically route to optimal GPU combination

3. Adaptive Routing

- Migrates between GPUs live to optimize cost/performance
- Cache results to minimize re-computation

4. Outcome-Based Pricing

- Set your budget and performance requirements
- Charged per-compute-second, not per-GPU-hour

Example Use Case

Platform	Specs & Cost	Setup & Reliability	Performance & Automation
Traditional Cloud (AWS)	<ul style="list-style-type: none"> • 1x H100 @ \$2.00/hr × 4hr = \$8.00 • Manual provisioning & configuration 	<ul style="list-style-type: none"> • Requires DevOps expertise • Limited automation 	<ul style="list-style-type: none"> • Expensive • No parallelization
Vast.ai	<ul style="list-style-type: none"> • 1x RTX 4090 @ \$0.40/hr × 8hr = \$3.20 • - Manual GPU selection 	<ul style="list-style-type: none"> • User handles setup • Reliability varies 	<ul style="list-style-type: none"> • No built-in optimization • Slowest
Cumulus	<ul style="list-style-type: none"> • Auto-routed to 6x RTX 4090s @ \$0.40/hr × 4.5hr = \$1.80 	<ul style="list-style-type: none"> • Declarative interface • No manual setup required 	<ul style="list-style-type: none"> • Parallelized • Automated routing, load balancing, optimization

Result: 78% cheaper than AWS, faster than Vast.ai, zero DevOps

GPU Rental Is Exploding

- Global GPU shortage projected to last **through 2027+**.
- AI demand up **10x year-over-year**.
- Yet **average GPU utilization < 40%**.

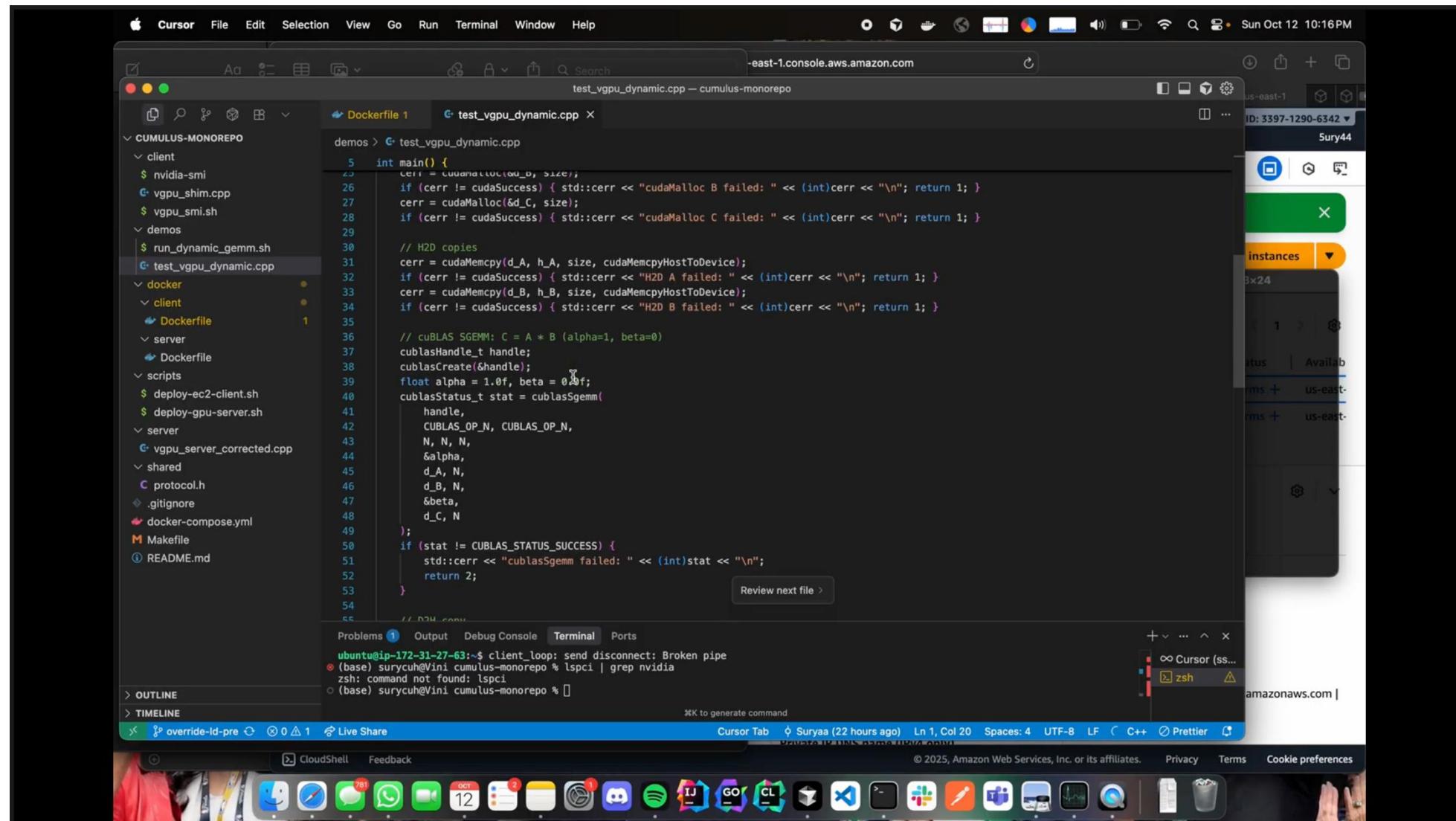
Potential **\$49B+**

Market by 2032

Our Solution

Problem	Solution
Static GPU allocation	Elastic, phase-aware scaling
Fixed pricing	Dynamic, budget and time based pricing
Idle GPUs	Shared tenancy & live migration
Fragmented supply	Unified GPU pool of individual hosts
Manual setup	One declarative interface

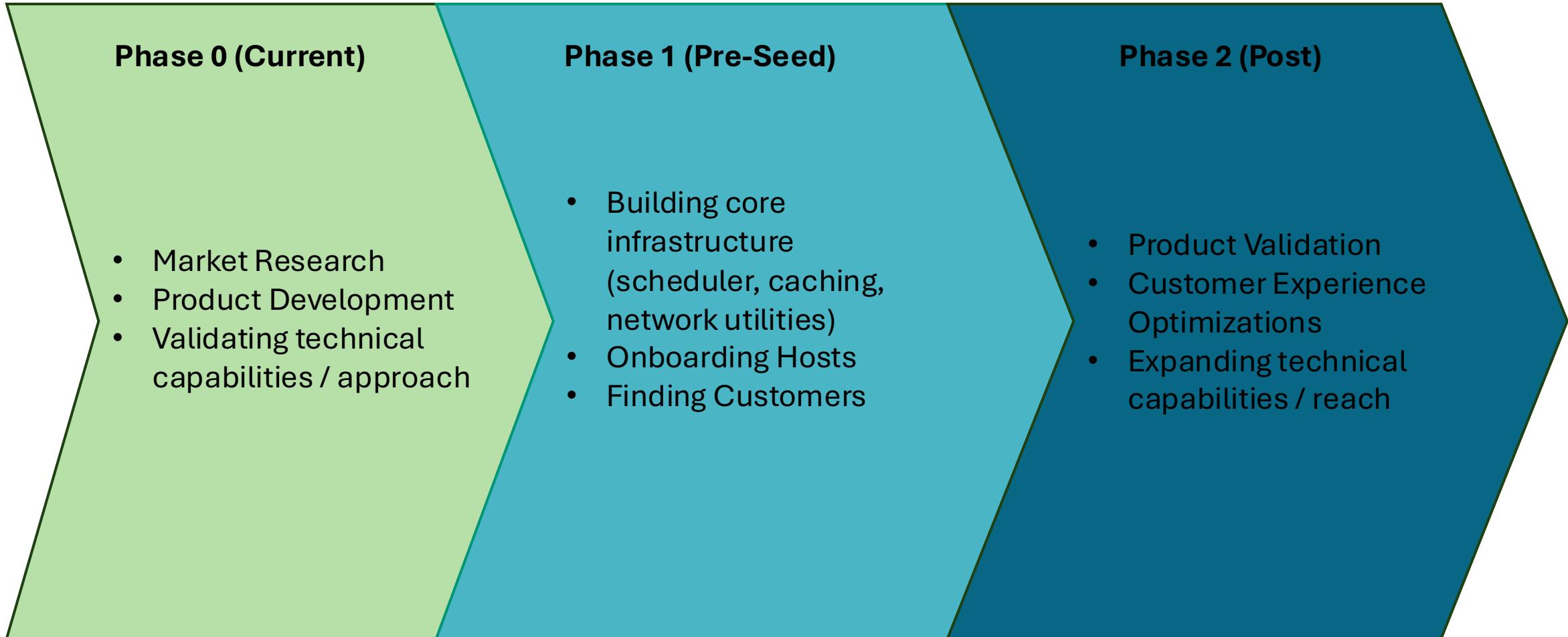
Cumulus is the next generation of liquid, fair, and flexible GPU compute.

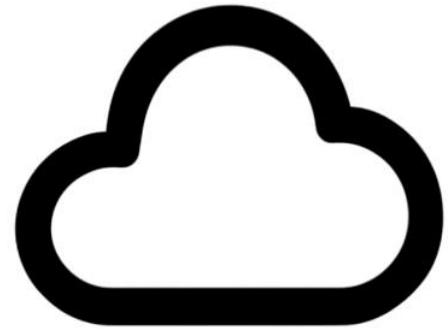


The screenshot shows a macOS desktop environment with several open windows:

- Terminal Window:** The title bar says "east-1.console.aws.amazon.com". The content shows a command-line session with AWS Lambda Cumulus interface commands like "client_loop", "lspci", and "zsh".
- Code Editor:** The title bar says "test_vgpu_dynamic.cpp — cumulus-monorepo". The code editor displays a file named "test_vgpu_dynamic.cpp" containing CUDA C++ code for GPU operations.
- Lambda Function Overview:** A sidebar on the right shows a Lambda function named "Sury44" with details like "ID: 3397-1290-6342", "Status: Available", and "Last Update: 3 hours ago".
- Mac OS Dock:** At the bottom, the Mac OS Dock is visible with various application icons.

Product Roadmap





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