

OriginAI

Harness the power of scalable data analytics at the core



Benefits and Use Cases

- ▶ Speed time-to-adoption of critical AI technologies
- ▶ Improve efficiency and ROI with custom designs
- ▶ Optimize workflows with deep integration tools
- ▶ Augment AI technical skill sets with targeted services
- ▶ Flexible engagement models: On-premises, as-a-service, and cloud

Why OriginAI

OriginAI™ provides a single, secure, end-to-end solution that includes architectural design, hardware and software services, hosting, and deployment. OriginAI frees organizations from having to focus valuable time and resources on creating an architecture from scratch – delivering cost savings, decreasing risk, and accelerating time to insight.

Speed time to adoption of critical AI technologies whether on-premises, in the cloud, or consumed as a service.

Organizations are recognizing the business potential that artificial intelligence (AI), machine learning (ML), and deep learning represent. AI-derived business is expected to reach \$3.9 trillion by 2022. As organizations move to adopt these technologies, CIOs face the challenge of implementing complex new systems that are performant, bespoke, and secure.

Analysts predict that 85% of AI projects will ultimately not deliver for their organizations. To be successful, every AI infrastructure component must be expertly tuned to support unique AI workloads. Challenged by critical gaps in expertise, organizations frequently cannot optimize their infrastructures, and this results in data path bottlenecks that render expensive resources idle. This leads to lost productivity and increase time to insight. Adding to the complexity, the speed at which AI evolves demands flexible, scalable architectures that can keep pace as technology advances.

Penguin Computing has partnered with WekaIO, Inc., under the Weka Within™ Certification Program, to create OriginAI™, a comprehensive, end-to-end, tested solution for data center AI that breaks down software, server/switch hardware, data storage and governance, and infrastructure barriers that cause AI projects to fail or stall.

Penguin Computing's Analytics Practice, a full-service consultancy, acts as a single point of reference for hardware, software, architectural design, hosting and management. This enables organizations to focus their time and resources on the business and human challenges in bringing AI projects to production. Penguin Computing OriginAI radically reduces the time to insight from years to months by providing organizations with a comprehensive solution.

OriginAI Components

Penguin Computing OriginAI includes:

Software Technologies

- ▶ Red Hat® OpenShift®

Compute Technologies

- ▶ NVIDIA DGX™ A100 System
- ▶ NVIDIA QM8700 HDR Infiniband Switches

Data Technologies

- ▶ WekaIO WekaFS File System

Data Center Infrastructure

- ▶ Power: N+1 power redundancy
- ▶ Cooling: Rear door heat exchange

Penguin Computing Services

- ▶ Design Services
- ▶ Professional Services
- ▶ Hosting Services
- ▶ Managed Services

Learn More

- ▶ Visit our [OriginAI website](#) for more information.
- ▶ Download our [Solution Brief](#) that provides details on the OriginAI components.
- ▶ Download our [Services Brochure](#)

The Penguin Computing Solutions Approach

Penguin Computing, through its technology practices and solutions, makes advanced technologies in AI/ML, Data, Cloud, and HPC more accessible and dramatically shortens the time needed to adopt them. We leverage decades of deep experience delivering fully packaged, tested, and supported platforms to simplify the emerging technologies required for today's most critical and demanding workloads.

Penguin Computing OriginAI provides a single, secure, end-to-end solution that includes architectural design, hardware and software services, hosting, and deployment. Penguin Computing OriginAI frees private and public sector organizations from having to focus valuable time and human resources on creating an architecture from scratch, delivering cost savings, decreasing risk, and accelerating time to insight.



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