Why Meta/Why This Role

Meta's open-source Llama models and commitment to building robust, accessible AI infrastructure make it the most compelling environment for deploying next-generation generative AI. The company's $14.3B investment in Scale AI, the recruitment of Alexandr Wang, Nat Friedman, and Daniel Gross, and the hiring of eight leading Chinese AI researchers show a clear focus on research leadership and global product impact. My experience aligns with Meta's mission to democratize AI and build scalable, trustworthy systems for worldwide use.

Top 3 Bullet Points: - Processed 2M+ km² satellite imagery daily for SpaceKnow, serving 350,000+ Bloomberg terminals. - Fine-tuned Llama 3.1 on thousands of internal documents for SpaceKnow's enterprise chatbot. - Built infrastructure supporting 1,000+ QPS web data acquisition for LLM pretraining.

GenAI Experience

I have led large-scale generative AI projects from infrastructure to deployment, including fine-tuning Llama 3.1 for specialized enterprise use. My work covers high-throughput data pipelines, distributed ETL, and robust automated preprocessing for multi-modal datasets. I have hands-on experience with domain-specific LLM adaptation, web-scale scraping, and ML framework optimization across cloud and on-prem clusters.

Top 3 Bullet Points: - Fine-tuned Llama 3.1 on thousands of internal SpaceKnow documents for an internal chatbot. - Built automated preprocessing pipelines handling 14TB/day on 256-node clusters at The Climate Corporation. - Implemented AutoGPT and BabyAGI frameworks achieving 92% accuracy in privacy risk scoring at Spartacus.

Product Sense

My product sense is grounded in delivering actionable AI solutions for enterprise and scientific users. I focus on user needs, data quality, and transparent outputs, creating products that turn complex analytics into accessible insights for decision-makers. This approach has driven adoption across finance, agriculture, and defense sectors.

Top 3 Bullet Points: - Created SpaceKnow Satellite Activity Index for 350,000+ Bloomberg subscribers. - Reduced corn yield prediction error from ±15.2% to ±12.1% across 6.2M acres at The Climate Corporation. - Built privacy systems reducing user data exposure by 83% within 30 days at Spartacus.

Approach to Design

I design AI systems for scalability, reliability, and transparency, using modular, cloud-native architectures and comprehensive monitoring. My infrastructure

supports petabyte-scale data, real-time responsiveness, and explainable outputs, ensuring robust performance for both research and production.

Top 3 Bullet Points: - Architected systems handling 12.4TB/hour across 1,200-node Kubernetes clusters. - Built infrastructure for 1,000+ QPS scraping with robust error handling. - Designed distributed ETL workflows processing 2M+ km² imagery daily with sub-second response times.

Stakeholder Management

I have managed partnerships with global financial, energy, and defense leaders, delivering high-value AI products and coordinating cross-functional teams. My experience includes working with demanding clients in sectors that require the highest standards of reliability, security, and precision.

Top 3 Bullet Points: - Managed partnerships with BlackRock, JPMorgan, Goldman Sachs, Exxon, Trafigura, and multiple Departments of Defense. - Built enterprise relationships generating $10M+ ARR and serving 350,000+ Bloomberg subscribers. - Led contracts with NATO and ESA for classified defense intelligence projects.

Personal Strengths

My technical strengths include distributed systems, ML pipeline optimization, and large-scale data engineering. I excel at translating technical advances into business value and building teams that deliver complex AI products on schedule and budget.

Top 3 Bullet Points: - Built infrastructure processing 14TB/day on 256-node clusters with automated scaling and fault tolerance. - Achieved 92% accuracy in privacy risk scoring while analyzing 250+ data points per user in real-time. - Managed cross-functional teams of 50+ engineers and data scientists delivering complex AI products.