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Leo Pitts

Cover Letter

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Hiring Team
Cascade Silicon Labs
Beaverton, OR

Dear Hiring Team at Cascade Silicon Labs,

I am excited to apply for the Sr. Machine Learning Engineer position at Cascade Silicon Labs. My background combines 16+ years of software development with 13+ years building machine learning systems, language-model research programs, and production ML infrastructure. This role is a strong fit for my experience turning research ideas into reliable systems that improve model capability and alignment.

In my current role, I lead research engineering for language-model post-training and agentic AI work. I have built **evaluation frameworks** for tool use, reasoning, memory retention, and refusal behavior, then used those benchmarks to compare model checkpoints with clear capability and alignment measures. I have strong hands-on experience with Python, **LLM architectures**, supervised fine tuning, **reinforcement learning**, and reward models.

I have built reproducible **post-training pipeline** workflows from data ingestion and preprocessing through checkpoint validation and deployment. My work includes **agent harnesses** with context assembly, tool selection, skill routing, and persistent memory, plus RL environments and verifiable reward functions for reasoning tasks. I have profiled **multi-GPU training** runs and fixed communication stalls, memory issues, and numerical instability.

Cascade Silicon Labs interests me for its focus on agent harness research, model fine tuning, and small models that can perform well under edge hardware limits. I would value the chance to connect research with production-quality engineering, test new ideas through clear experiments, and work with a team focused on practical agentic applications.

Thank you for your consideration. I would welcome the opportunity to discuss how my experience could support Cascade Silicon Labs' machine learning research and engineering goals.

Sincerely,

Leo Pitts

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