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Cover Letter

Dear FuriosaAI Hiring Team,

I am applying for the Software Engineer, LLM Performance & Evaluation position (Job ID 4006955201). I bring experience using evaluation to guide model improvements, including Text-to-SQL adaptation and business-card extraction. I define success through the result a task requires and investigate the failure patterns behind the aggregate score. Before ISPARK, I served one year as an information-systems NCO in the Republic of Korea Air Force (Dec 2021–Dec 2022), maintaining Linux servers through shell scripting and log analysis.

I improved a four-billion-parameter Text-to-SQL model from 26.6% to 76.6% normalized database-result agreement on a 64-question internal CRM development benchmark, using teacher-student training and rank-16 LoRA. The model matched 49 of 64 reference results, compared with 17 for the base model; scoring ignores row order and normalizes numbers and dates. I also verified the serving interface: missing schema input caused invented table names despite unchanged weights. I documented the required schema inputs alongside the adapter so the trained behavior could be reproduced in serving.

I developed business-card information extraction used in TieMing, reaching 94% accuracy across seven core fields in a workflow covering approximately 5,000 cards. To address correct text being assigned to the wrong fields, I trained a smaller student model through knowledge distillation and low-rank adaptation (LoRA). I separately targeted difficult cases: follow-up training and selective regeneration of malformed outputs raised field-value accuracy from 30.2% to 65.3%. The work involved choosing the training method, diagnosing output errors, and implementing the changes in the extraction workflow.

At FuriosaAI, I can contribute reproducible model workloads and reference results, then trace quality or performance regressions to specific input and implementation changes. My training and evaluation experience lets me connect measurements to the next engineering decision.

Sincerely,

Jeonghun Kim