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Software Engineer III, ML Compiler, Infrastructure

Google Munich, Germany Mid

Apply

Minimum qualifications:

- Bachelor’s degree or equivalent practical experience.
- 2 years of experience with software development or 1 year of experience with an advanced degree in an industry setting.
- 2 years of experience with developing large-scale infrastructure, distributed systems or networks, or experience with compute technologies, storage or hardware architecture.
- 2 years of software development experience in C++.

Preferred qualifications:

- Master's degree or PhD in Computer Science or related technical fields.
- 2 years of experience with data structures or algorithms.
- Experience developing accessible technologies.
- Knowledge of low-level optimization on GPU, as well as basic compiler knowledge.

About the job

Google's software engineers develop the next-generation technologies that change how billions of users connect, explore, and interact with information and one another. Our products need to handle information at massive scale, and extend well beyond web search. We're looking for engineers who bring fresh ideas from all areas, including information retrieval, distributed computing, large-scale system design, networking and data storage, security, artificial intelligence, natural language processing, UI design and mobile; the list goes on and is growing every day. As a software engineer, you will work on a specific project critical to Google’s needs with opportunities to switch teams and projects as you and our

The Team specializes in device code generation for GPU, i.e. generating the most efficient instructions to execute ML models, as well as extending and maintaining infrastructure for compiler engineers and our partners. We enable high-performance inference and training of first- and third-party models on GPU for all of Alphabet.Google Cloud accelerates every organization's ability to digitally transform its business and industry. We deliver enterprise-grade solutions that leverage Google's cutting-edge technology, and tools that help developers build more sustainably. Customers in more than 200 countries and territories turn to Google Cloud as their trusted partner to enable growth and solve their most critical business problems.

Responsibilities

- Improve the code quality, architecture and testability of the codebase.
- Work towards a better separation of runtime and compile time functionality in XLA:GPU.
- Integrate external libraries such as NVIDIA's cuDNN in google3 and XLA, and keep them up to date.
- Maintain and extend infrastructure and tools to improve the compiler's reliability and team velocity.

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If you have a need that requires accommodation, please let us know by completing our Accommodations for Applicants form.

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