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Software Engineer, GPU Platforms

 Google  Taipei, Taiwan  Early[Apply](#)

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Minimum qualifications:

- Bachelor's degree in Computer Science, a related technical field, or equivalent practical experience.
- 1 years of experience in system software development (e.g., kernel, device drivers, firmware, software that manages kernels, machines, or devices).
- 1 year of experience coding in C or C++.
- Experience with Linux/Unix development environments.

Preferred qualifications:

- Experience with developer operations, release management, and integration testing.
- Experience with designing and developing device drivers for peripherals (e.g., GPUs, PCIe Switches, and connectivity buses like I2C, USB, PCIe).
- Experience coding in Python or with scripting languages (e.g., shell).
- Experience with open source development.

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



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 fast-paced business grow and evolve. We need our engineers to be versatile, display leadership qualities and be enthusiastic to take on new problems across the full-stack as we continue to push technology forward.

Within the Platforms organization, the GPU System Software team is responsible for building GPU compute solutions that power various Google services. The team also maintains the systems deployed in data centers with reliability monitoring services, kernel rollouts, as well as firmware and driver upgrades.

Behind everything our users see online is the architecture built by the Technical Infrastructure team to keep it running. From developing and maintaining our data centers to building the next generation of Google platforms, we make Google's product portfolio possible. We're proud to be our engineers' engineers and love voiding warranties by taking things apart so we can rebuild them. We keep our networks up and running, ensuring our users have the best and fastest experience possible.

Responsibilities

- Develop, integrate, and validate Data Center GPUs software, kernel drivers, and firmware.
- Write detailed specifications for software architecture and systems.
- Acquire expertise in the technologies vendors contribute to platforms.
- Develop, integrate, and test software that helps power systems.
- Develop comprehensive test suites that enable unit, integration, and system level testing of system software.

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proficiency is a requirement for all roles unless stated otherwise in the job posting.

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