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# Example of Principal Software Architect Job Description

Our company is growing rapidly and is looking to fill the role of principal software architect. If you are looking for an exciting place to work, please take a look at the list of qualifications below.

## Responsibilities for principal software architect

* Work with other architects to design features and participate in design decisions
* Work with project stakeholders to identify and understand business, technology, and architecture requirements and select technologies to meet customer's needs
* Design and architect solutions to build and extend upon our new distributed services
* Create or assist other developers with creating custom ServiceNow Discovery probes, discovery patterns, and sensors to gather data via REST or SOAP APIs, SSH, Powershell, Python (Ansible)
* Design configuration management integrations with ServiceNow and infrastructure in various ecosystems (traditional enterprise datacenter, OpenStack, AWS, Azure, Google Cloud Platform, etc…)
* Consults and/or participates in the requirements gathering, design and frequent iterative user acceptance feedback loops to ensure the development of quality solutions
* Architect, design and implement new data platform features and enhancements with production-level quality
* Research into new technologies and create working Prototypes using Java technology
* Apply best practices to our software and enable Industry leadership support of our software and drivers in the Cloud and Campus space
* Assess emerging trends and technologies to foster Cloud ecosystems

## Qualifications for principal software architect

* Experienced in the design of Internet-scale applications and platforms
* Excellent understanding of switch SDK, switch ASIC architectures, network operating systems, Linux networking stack
* Experience with both infrastructure (web services) and client sides highly desired
* Ability to lead solution design and the development of key artifacts including, but not limited to architectural models, process diagrams, concepts of operation
* Identify and address bottlenecks in a complex, distributed system architecture
* Drive a culture of reusable shared microservices across the organization