# Principal Software Engineer Distributed Storage

## Description

Join us as we scale our business in NA/EMEA by building on our tremendous success around the world. The massive database market is going to double over the next few years (the IDC estimates it to be $119B+ by 2025) and PingCAP is a global player positioned as a major disruptor with TiDB Database and Database as a Service offering. TiDB is an open-source, cloud-native, distributed SQL database for elastic scale and real-time analytics. Large and high-growth organizations in markets as varied as financial services, logistics, gaming, e-commerce and software as a service have successfully deployed and expanded their TiDB footprint on mission-critical applications. Our strong open-source community roots (32,000 stars on GitHub), innovative products and inclusive culture draw passionate and dedicated people to our company. Learn more about PingCAP careers and join our team to be at the forefront of innovation and growth.nResponsibilitiesDesign and implement core kernel features of TiKV to improve performance, scalability, and reliability.Optimize data structures, algorithms, and concurrency mechanisms in TiKV to maximize throughput and minimize latency.Collaborate with the open-source community to review and merge contributions to the TiKV codebase, ensuring adherence to best practices and coding standards.Lead efforts to enhance TiKV's backup and restore capabilities at the kernel level, including but not limited to developing efficient snapshotting and Pitr mechanisms.Analyze and improve TiDB's performance, stability, and scalability in the cloud environment.Troubleshoot and resolve customers' critical issues such as performance, stability, or scalability.Document design decisions, implementation details, and performance optimizations in technical specifications, design documents, and code comments.Stay updated on the latest developments in distributed systems research and industry trends, and contribute insights and expertise to inform our technology roadmap.Mentor junior engineers and help to grow the whole team's technical capability.QualificationsBachelor's or Master's degree in Computer Science, Engineering, or a related field.5+ years of experience in database, storage, and/or distributed system development.Experience with TiKV or similar distributed key-value stores (e.g., RocksDB, etc.) is highly desirable.Familiarity with cloud-native technologies(e.g., AWS, GCP, Azure infra) and container orchestration platforms (e.g., Kubernetes) is a plus.Excellent problem-solving skills and the ability to work independently as well as part of a team.Strong communication skills and the ability to collaborate effectively with cross-functional teams.A passion for learning and staying updated on emerging technologies and industry trends.n$180,000 – $260,000 a yearThe annual anticipated base salary range for U.S. candidates for this role is USD 180K to $260K. The actual individual base pay will depend on various factors such as the complexity and responsibility of the role, work locations, job levels, and relevant experience and skills. This role is also eligible to participate in PingCAP's Bonus and Equity Plan, as well as our Sales Compensation Plan if it is a sales role. In order to comply with local legislation and provide greater transparency to candidates, we share base salary ranges on all US job postings regardless of desired hiring location. Please note that actual salaries may vary and fall outside of this range depending on factors such as a candidate's qualifications, geographic location, skills, experience, and competencies. Other benefits include health insurance, flexible vacation time, paid holidays, and parental leave. Salaries for candidates outside the U.S. will vary based on local compensation structures.nWe encourage people from underrepresented groups to apply. Come advance with us! In keeping with our values, no employee or applicant will face discrimination/harassment based on: race, color, ancestry, national origin, religion, age, gender, marital domestic partner status, sexual orientation, gender identity, disability status, or veteran status. PingCAP also strives to prevent other, subtler

**Hiring organization**
PingCAP

**Job Location**
Remote in San Francisco Bay Area, Seattle, or West coast timezone

**Base Salary**
$ 80000 - $ 125000

**Date posted**
May 13, 2024

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forms of inappropriate behavior (e.g., stereotyping) from ever gaining a foothold in our organization. Whether blatant or hidden, barriers to success have no place at PingCAP.Please mention the word **AGILELY** and tag RMzQuODYuMTYzLjE1Mg== when applying to show you read the job post completely (#RMzQuODYuMTYzLjE1Mg==). This is a beta feature to avoid spam applicants. Companies can search these words to find applicants that read this and see they're human.

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