

## C, Golang Software Engineer working on dqlite, a Raft extension for SQLite

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Company: Canonical

Location: London

Category: computer-and-mathematical

We are hiring a software developer to focus on dqlite, our distributed SQLite database which uses our own Raft library for establishing consensus and replication. Dqlite is available as a pure C library or through a Go package that we also maintain, and we intend to provide bindings for Python and other languages.

You will design and implement enhancements to the libraft, dqlite and go-dqlite components which we consume in MicroK8s, LXD and other projects. Work includes development in those pieces of software as well as responding to issues and user inquiries.

This is an excellent opportunity for someone who wants to have a meaningful impact on modern computing technologies. Canonical offers a fast-paced team environment and a career full of learning and development opportunities.

**Location** : This is a remote position available in EMEA

### **What you will focus on**

Design and implement features across dqlite

Debug and fix issues encountered by your users

Improve Jepsen tests, traditional HA database automated testing and stress tests

Participate in our engineering process through code and architectural review

Engage with the open source community and commercial partners

### **What we are looking for in you**

Experience with distributed systems (preferably with Raft)

Good C programming experience

Solid understanding of asynchronous programming and concurrency patterns a plus

Capacity to learn quickly about new systems and techniques

Strong written and verbal communication skills

Bachelor's or equivalent in Computer Science, STEM or similar degree

### **What we offer you**

We consider geographical location, experience, and performance in shaping compensation worldwide. We revisit compensation annually (and more often for graduates and associates) to ensure we recognise outstanding performance. In addition to base pay, we offer a performance-driven annual bonus. We provide all team members with additional benefits, which reflect our values and ideals. We balance our programs to meet local needs and ensure fairness globally.

Distributed work environment with twice-yearly team sprints in person

Personal learning and development budget of USD 2, per year

Annual compensation review

Recognition rewards

Annual holiday leave

Maternity and paternity leave

Employee Assistance Programme

Opportunity to travel to new locations to meet colleagues

Priority Pass, and travel upgrades for long haul company events

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