

Gambit Research

Established in 2005, Gambit Research develops automated tools to facilitate high-speed trading on sports betting markets. On behalf of our clients, we devise and implement strategies to exploit market inefficiencies, then run them on our high-frequency execution platform. Our system is always trading, and we need to maintain a reliable, low latency service and adapt it to the evolving needs of the company and our clients.

We have a very flat hierarchy and an emphasis on employee freedom. We encourage our team to work on projects that interest them, as we believe people are happiest and most productive when intellectually stimulated. You don't need to be interested in sports betting.

Other perks: intelligent colleagues, quarterly bonuses, flexible working hours, private healthcare, private pension contributions, part-funded sabbaticals after five years of service, excellent holiday allowances, office chef multiple times per week serving healthy lunches, regular employee outings, opportunities to attend conferences in the UK and abroad, extensive and expanding technical library, height-adjustable desks, the ability to build your own PC, get a mechanical keyboard, and get up to 4 monitors.

The infrastructure team

As a technology company we understand the value of having a simple, robust, scalable, and secure infrastructure.

We run tens of high-performance bare-metal servers across multiple availability zones, which host hundreds of containers, handling terabytes of data per day with latencies as low as single-digit microseconds. We also use various cloud providers, but mainly for disaster recovery, experimentation, and other purposes.

We use open-source technologies almost exclusively and we try to contribute back when possible (for example, we have contributed patches to Postgres and reported vulnerabilities/bugs in tcpdump, Docker, Kubernetes, and others).

There are no non-technical people or Windows systems to support. All developers use Linux and deploy/debug their applications themselves. Management listens and there are almost no deadlines. Emergencies occur very infrequently, overtime is rare, and there is no shift work.

The role

We're looking to take on an additional infrastructure engineer to take some of the load off the existing 2.5-person team.

We strive to automate as much as possible and the entire infrastructure team is able to program, so this isn't an old-school sysadmin job. "Traditional" sysadmin knowledge is still valuable, but we use immutable infrastructure where possible. For everything else we use configuration management, scripting, and actual programming (mainly Python 3 and Postgres).

Requirements

Essential:

- Experience with Linux systems administration (Debian/Ubuntu systems in particular).
- Experience with configuration management software (we use Ansible).
- Good command of Git, Python, and shell scripting.
- Good understanding of networks.
- Ability to self-manage and intelligently prioritise tasks.
- Good spoken and written communication skills.
- Interest in new technologies and continuous self-improvement.

Desirable:

- Degree in Computer Science or equivalent experience.
- Experience with Linux containers (LXC, LXK, Docker, Kubernetes).
- In-depth understanding of how computers work (assembly, kernel internals, L2 to L7).
- Experience administrating databases (ideally PostgreSQL).

- Knowledge of Web technologies and protocols.
- Passion for high-quality monitoring/forecasting/measurement/alerting practices/tools.
- Ability to diagnose problems on production machines, as well as perform post-mortem analyses.
- Advanced networking skills (VPNs, BGP, OSPF).
- Interest in reliability engineering and distributed systems.