

Infrastructure Engineer Job Description



About 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.

You'll be encouraged to maintain a good work-life balance, and will benefit from flexible working hours, quarterly bonuses, 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 high-end PC, get a mechanical keyboard, and get up to 4 monitors.

We're very proud of the open, intelligent, and collaborative culture at Gambit, and are always looking to expand team. As a technology company we understand the value of having a simple, robust, scalable, and secure infrastructure. We run tens of bare metal servers across multiple availability zones, which host hundreds of containers, handling terabytes of data per day, so this is an exciting role for a DevOps Systems Administrator, who wants to be challenged and grow.

Purpose of the Role

Our existing Infrastructure team is three people strong, and we're looking for a committed, and passionate professional to join us.

Responsibilities and Duties

You'll have the opportunity to work on projects in these areas:

- Networking design and routing
- Security
- System monitoring
- Ensuring resilience against hardware failures
- Maintaining large scale PostgreSQL database clusters
- Automation of deployment

Previous projects have included working on:

- Gitlab continuous integration
- Graphite and Grafana
- Using Ansible for automating deployment
- Setting up Kubernetes clusters
- Undertaking a network upgrade
- Establishing an internal Debian repository.

Skills and Competencies

You will have:

Essential:

- The ability to write and maintain good quality code, preferably with experience of Python and shell scripting
- The skill to solve difficult problems via coding automation
- An interest in infrastructure and Linux systems
- The ability to self-manage and intelligently prioritise tasks
- Good spoken and written communication skills, the ability to quickly establish strong and professional working relationships with colleagues
- Team working skills, whilst also being able to work productively on solo projects

Desirable:

- An in-depth knowledge of all hardware and software layers
- A passion for high-quality monitoring/forecasting/measurement/alerting practices and tools
- The ability to diagnose problems on production machines, as well as to perform post-mortem analyses
- A good understanding of TCP/IP networks
- Experience with, and knowledge of, using Git

Qualifications and Experience

You'll need:

- Experience with Linux systems administration at scale. We use Debian/Ubuntu systems, but would also consider someone with alternative experience, e.g. CentOS/RedHat
- Experience with monitoring systems
- Experience with configuration management software (we use Ansible)
- Experience administering databases
- Experience with Linux containers (LXC, Docker, Kubernetes)