George Brighton

Profile

A knowledgeable and inquisitive software engineer working in reliability, passionate about observability and simplifying architecture, with a penchant for interesting problems. Prometheus and OTel committer, SREcon presenter.

Technical Skills

	Very proficient	Proficient
Languages	• Go, Java, C, Python	• Rust, Bash, SQL, Haskell
Platforms	• Prometheus, Thanos, OpenTelemetry • Podman, Kubernetes • AWS	• Linux (RHEL, Debian), BPF • Kafka, Elasticsearch • GCP

Please visit my website, gebn.co.uk, for links to my GitHub and Stack Overflow profiles.

Education

Oct 2012 – Jul 2017	**University of Birmingham** **1st Class MEng Computer Science & Software Engineering** • Awarded *Best MEng Computer Science & Software Engineering Student* in second year and final year.
Sept 2007 – May 2012	**King's College School, Wimbledon** International Baccalaureate

Goldman Sachs

Mar 2020 – present	**Market Data Engineering SRE** Vice President • Managing a global team tasked with establishing and maintaining adherence to SLOs. • Vendor engagement, including feature requests and incident management. • Solved initial lack of machine and process inventory, which now enables deployment consistency, automatic observability, and capacity management. • Architected market data web service in Kubernetes, deployed in six data centres globally. Automated to the point of needing no permanent operational headcount. • Initiated and maintain a distributed tracing backend built on top of Tempo, expanded to other teams due to demand. Defined OTel conventions for division. • In addition to day-to-day role, divisional graduate recruitment liaison for Birmingham universities, intern and apprentice mentor, and lead Python instructor at Code First Girls, a non-profit sponsored by Goldman to increase diversity in the tech industry.
Jul 2017 – Mar 2020	**Core SRE** Associate • Design and implementation of a centralised, managed Prometheus service, with automatic configuration building, validation and deployment via Bazel. • Implemented integrations for various proprietary systems in Go.
Jun 2015 – Jun 2016	**Trading Market Data** Year in Industry

Industry Engagement & Open Source

Oct 2022	**SREcon22 EMEA Speaker** *Applying SRE Techniques to Legacy Designs* • Adapted and delivered as the keynote at FISD London in Jun 2023.
Jul 2019 - present	**Baseboard Management Controller** github.com/gebn/bmc • IPMI v2.0 remote console implemented from the specification in pure Go. • Sibling Prometheus bmc_exporter, optimised for scraping 10,000 machines with 1 core through use of goroutines and minimal memory allocation.

Interests & Volunteering

Mar 2024 onwards	**Shakespeare's Globe** Volunteer Steward
Jun 2022 – Dec 2022	**St. John Ambulance** Volunteer COVID-19 Vaccinator
Feb 2020 – May 2020	**WSET Level 2 Award in Wines** 600/1508/1
Jun 2015	**PADI Open Water Diver** 1501UR7568

Additionally, a keen skier, most recently to Fiss, Austria in Jan 2024.