

LEE PAUL JOHNSON WALLACE

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ABOUT

I'm a Software Engineer who thrives on developing and running distributed systems. I have a proven track record in writing scalable, resilient software and architecting reliable systems.

PROFESSIONAL EXPERIENCE

Arm

Software Engineer

Aug. 2021 – Present

Cambridge, UK

Engineer on the Partner Enablement infrastructure team, tasked with leading container-based infrastructure projects and developing internal tooling that 250+ developers rely on.

- Highlights include mentoring our team on migrating from on-prem VM's to an EKS Cluster, reducing CI pipeline duration by 70%, leading development of Java microservices for serving Arm's documentation.
- Writing performant, scalable software with Spring Boot and Go.
- Running system design proposals to ensure our platform is scalable and resilient. Introduced and integrated ArgoCD for our deployments, including automated rollbacks and health checks.
- Implementing the monitoring and alerting infrastructure with Prometheus, AlertManager and Grafana. Developed custom services to monitor the state of internal secrets and certificate expiries.
- Engaging in improving developer productivity through delivering internal technical talks and blogs.

EDUCATION

University College London (UCL)

MSc Software Systems Engineering - Distinction

University of Greenwich

BSc Business Information Technology - First Class Honours

Sept. 2020 – Sept. 2021

London, UK

Sept. 2016 – July 2020

London, UK

SKILLS

Working experience with: Java (Spring Boot), Python and YAML. Working knowledge of Go.

Data and networking technologies: MongoDB, Nginx, UNIX shells, Docker and continuous integration systems (Jenkins, ArgoCD, GitLab CI, GitHub Actions). Messaging systems including Kafka.

DevOps: Experience building, running and maintaining Kubernetes and cloud services, using provisioning tools like Terraform and Ansible. Monitoring using tools including Prometheus, Grafana and distributed tracing systems. Experience with Cilium.

Able to grasp new programming languages, frameworks, systems and APIs rapidly.

RECENT PROJECTS

More projects (plus source code) are available at <https://github.com/leepjwallace/>

Improving memory optimisation in Java: Mutating open-source Java software to evaluate if changing data types to close neighbours (ArrayList > List etc.) can optimise memory consumption in the JVM.

Great Ormond Street Hospital (GOSH): Neo4J: Developed Graph Database for GOSH for future use with ML prediction of recommended treatments. Implemented the [FHIR](#) standard in the schema.

Java By Example: A website illustrating examples of Java basics, data types and popular algorithms.

Zsh By Example: A small tutorial website that covers the functionality of the Zsh shell.

Go Reg Go: A service that provides details of a UK vehicle and its MOT data given a vehicle registration. Users can pay for a more advanced data check via an integration with the Stripe Payments API.