

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

Aug. 2021 – Present

Software Engineer

Cambridge, UK

Engineer on the Partner Enablement infrastructure team, tasked with maintaining and leading projects on container-based infrastructure and developing internal tooling that 500+ engineers rely on.

- Highlights include leading and mentoring our team on migrating from on-prem to EKS Cluster, reducing CI pipeline duration by 70%, leading development of Java microservices for Arm's documentation platform.
- 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.
- Implementing the monitoring and alerting infrastructure with Prometheus, AlertManager and Grafana. Developed custom services to monitor the state of secret expiries and certificates.
- Engaging in improving developer productivity through delivering internal technical talks and blogs.

EDUCATION

University College London (UCL)

Sept. 2020 – Sept. 2021

*MSc Software Systems Engineering - **Distinction***

London, UK

University of Greenwich

Sept. 2016 – July 2020

*BSc Business Information Technology - **First Class Honours***

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.

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 structures can impact memory consumption in the JVM, for improved performance.

Great Ormond Street Hospital (GOSH): Neo4J: Developed Graph Database for GOSH for future use with AI prediction of recommended treatments. Implemented [FHIR](#) specification.

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 MOT data given a Vehicle Registration. Users can pay for a more advanced data check using the Stripe payments integration.