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 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 container-based infrastructure and developing internal tooling that 500+ engineers rely on.

- Working on 10+ projects across the company. Highlights include; leading and mentoring the team on migrating to containerised application deployment with Kubernetes (EKS) from Azure VM's, reducing Jenkins CI/CD pipeline durations by over 75%, developing services to house all previously scattered internal product documentation and leading the development of public-facing Java microservices to provide access to confidential documentation.
- Developing scalable internal tooling using Spring Boot, Python and Kubernetes.
- Building, running and maintaining the Kubernetes, VM and Microservices infrastructure on AWS and Azure.
- Configuring the monitoring and alerting infrastructure with Prometheus, AlertManager and Grafana.
- Actively engaging in company-wide initiatives for improving developer productivity and DevOps practices, writing and reviewing architectural proposals, advising on architectural designs and writing performant software, delivering internal technical talks and blogs.

Go Reg Go   **June 2020 – Present**
Software Engineer   *London, UK*

- Developed an online business that aggregates motor vehicle data for customers from DVLA API's.
- Handles online payments with the Stripe Payments Processing API - received over 200 payments.
- Built using Node.js, Express, Bootstrap, MongoDB, Kubernetes and AWS.

EDUCATION

University College London (UCL)   **Sept. 2020 – Sept. 2021**
*Master of Science in Software Systems Engineering - **Distinction***   *London, UK*

- Thesis: Titled "Improving memory optimisation in Java" - empirically investigated the impact that Genetic Improvement algorithms may have on improving memory consumption in Java applications for improved performance, supervised by Dr. Justyna Petke.
- Worked alongside the Head of Data Science and Engineering at KPMG, Dr. Rebbeca Pope to build a Neo4J graph database and ML pipeline to recommend treatments, for Great Ormond Street Hospital.
- Optional Modules: Networked Systems, Information Retrieval and Data Mining.

University of Greenwich   **Sept. 2016 – July 2020**
*Bachelor of Science in Business Information Technology - **First Class Honours***   *London, UK*

- Thesis: Using statistical analysis to investigate possible correlations between rising knife crime in London and falling youth budget cuts.
- Frequently developed software using Java, Python and MySQL.
- Optional Modules: Information Technology Planning, Database Management and Administration.

SKILLS

Working experience with: Java (Spring Boot), Python and YAML. Limited knowledge of Go.
Data and networking technologies: 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 Ansible and Terraform alongside monitoring using tools like Prometheus, Grafana and distributed tracing systems.

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