

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.

- Highlights include; leading the migration 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 React.
- Managing and operating the Kubernetes, EC2 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 CI/CD pipelines, writing and reviewing architectural proposals, advising on architectural best practices 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, exceeding £3000.
- 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. Rebecca 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.

PROGRAMMING

Confident using Java (Spring Boot), Go and Python.

Passing knowledge of JavaScript, React and SQL.

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

SOFTWARE

Kubernetes, Amazon Web Services (EC2, EKS, S3, ECR, Route 53, Load Balancing), Azure (App Services, CosmosDB, AD), Jenkins, Linux, Prometheus, Grafana, MongoDB, Git, Docker, Terraform, Ansible, Elasticsearch, Artifactory