

# Lee Paul Johnson Wallace

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## ABOUT

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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

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### Arm

**Aug. 2021 – Present**

*Software Engineer*

*Cambridge, UK*

Engineer on the Partner Enablement internal tooling infrastructure team, tasked with maintaining container-based infrastructure and developing internal tooling that 500+ employees 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.
- Developing scalable internal tools using Spring Boot, Python and React.
- Managing and operating the Kubernetes, EC2 and Microservices infrastructure on AWS.
- Configuring the monitoring and alerting infrastructure with Prometheus, AlertManager and Grafana.
- Introduced SonarQube and experimental Mutation Testing in CI/CD pipelines.
- 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 APT's.
- Handles online payments with the Stripe Payments Processing API, exceeding £3000.
- Built using Node.js, Express, Bootstrap, MongoDB, Kubernetes and AWS.

## EDUCATION

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

## PROGRAMMING

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Confident using Java (Spring Boot), Python and Go

Passing knowledge of JavaScript, React and SQL.

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

## SOFTWARE

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