Senior Software Engineer (Java/Cloud)

Contact Information:

- **Full name:** Emily Foster
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- **Location:** London, UK

Professional Summary: Highly accomplished Senior Software Engineer with 8+ years of extensive experience in designing, developing, and deploying robust, scalable, and high-performance enterprise applications using Java. Proven expertise in cloud platforms (AWS), microservices architecture, and leading complex software projects from inception to delivery.

Work Experience:

- **Lead Software Engineer**
    - Enterprise Solutions Group, London, UK
    - May 2021 – Present
    - Led a team of 5 engineers in the design and implementation of a new microservices-based platform using Spring Boot and Kubernetes on AWS.
    - Architected and developed critical backend services, improving system throughput by 50% and reducing latency.
    - Mentored junior and mid-level developers, fostering a culture of technical excellence and continuous improvement.
    - Implemented robust testing strategies (unit, integration, end-to-end) and ensured high code quality through comprehensive code reviews.
    - Managed deployments, monitoring, and scaling of applications using AWS CloudWatch, Grafana, and Prometheus.
- **Software Engineer**
    - Global Tech Innovations, Manchester, UK
    - August 2017 – April 2021
    - Developed core Java applications for a large-scale financial trading system, focusing on performance and reliability.
    - Designed and optimized relational databases (Oracle, PostgreSQL) and NoSQL databases (Cassandra).
    - Implemented asynchronous messaging patterns using Apache Kafka for inter-service communication.
    - Contributed to the migration of monolithic applications to a cloud-native architecture on AWS.

Education:

- **M.Eng. in Computer Science**
  - University of Oxford, Oxford, UK
  - Graduation: July 2017
- **B.Sc. in Software Engineering**
  - University of Manchester, Manchester, UK
  - Graduation: July 2015

Skills:

- **Technical:** Java, Spring Boot, Spring Cloud, Microservices, RESTful APIs, AWS (EC2, S3, RDS, Lambda, EKS, SQS, SNS, DynamoDB), Kubernetes, Docker, Apache Kafka, PostgreSQL, Oracle, Cassandra, Git, Jenkins, Terraform, Maven, Gradle, JUnit, Mockito, CI/CD, Distributed Systems, Design Patterns
- **Tools/Software:** IntelliJ IDEA, Postman, Jira, Confluence, Grafana, Prometheus
- **Soft Skills:** Technical leadership, architectural design, project management, problem-solving, team building

Certifications & Training:

- **AWS Certified Solutions Architect – Associate**
  - Amazon Web Services
  - Obtained: January 2022

Publications / Research:

- Foster, E., & Smith, J. (2016). *Optimizing Distributed Transaction Management in Microservices Architectures*. Proceedings of the International Conference on Software Engineering (ICSE 2016).

Languages:

- **English:** Native

Professional Affiliations / Memberships:

- Institute of Electrical and Electronics Engineers (IEEE) - Member since 2016

References: Available upon request.