Clinton Fernandes

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About me

Results-driven Senior Software Engineer with 5+ years of experience in building scalable, **cloud-native** applications using **Java, Spring Boot, and AWS Serverless technologies**. Proven track record of optimizing cloud infrastructure, reducing costs by up to 60%, and accelerating CI/CD pipelines by over 65%. Adept at designing event-driven systems with **Lambda, SQS, ECS, and CDK**. Recognized with multiple awards for **delivery excellence** and technical leadership. Passionate about system design, automation, and empowering teams through knowledge sharing.

Skills

Programming Languages: Java (Advanced), TypeScript, Python, HTML & CSS
Cloud: AWS Serverless - Lambda, SQS, S3, API Gateway, CloudFront, Route53, ECS, CloudWatch, X-Ray, CDK (TypeScript), IAM, KMS, and cloud-native debugging skills
Frameworks/Technologies: Spring Boot, Spring MVC, Hibernate, ReactJS, NextJS, NodeJS, Quarkus, Helidon
Architectural Experience: Event-driven and CQRS patterns, Serverless (extensive), Infrastructure as Code, Cache Loading Strategies, Java Behavioral and Creational Patterns
Tools: Git, Jenkins, Docker, Kubernetes, WebSphere, PuTTY, WinSQL
Soft Skills: Leadership, Communication, Problem-Solving, Team Collaboration

Professional Experience

Software Engineer   **January 2023 – Present**
Principal Global Services, Pune, Maharashtra

- **Automated BGA office updates** in the digital **Request for Proposal** application by developing a custom **Spring Boot** application to dynamically read and update lists, improving operational efficiency.

- **Designed and implemented a custom load testing service** using **Helidon, ECS, Lambda, and SQS** in an event-driven serverless architecture, enhancing system reliability and scalability.

- **Streamlined integration testing** for the **Disability Insurance Calculator** by enabling test creation through **Excel-based automation**, reducing manual effort by **40%**.

- **Achieved a 60% reduction in AWS costs** by identifying and consolidating duplicate **KMS keys**, optimizing the system with a single **CMK key**, and successfully presenting the analysis to stakeholders.

- **Resolved a critical production issue** related to rate limiting by implementing an **exponential back-off strategy**, ensuring zero production issues thereafter.

- **Reduced CI/CD pipeline duration by over 65%** through the use of **GitHub matrix builds** and **parallel execution** in the digital **Request for Proposal** application.

- Conducted **knowledge-sharing sessions** for the team and presented a topic on **Lambda Power Tools** during a **Tech Leads meeting**, enhancing team expertise.

Software Engineer   September 2020 – December 2022
Tata Consultancy Services (ICICI Prudential Life Insurance Company), Mumbai, Maharashtra

- **Delivered 140+ requirements**, including several **microservices**, ensuring demonstration within sprints and engineering changes directed by the client.

- **Optimized a web application**, reducing the processing time of a **7-page journey** by **8 seconds** through code reuse and interfaces.

- **Designed and developed 3 major and 2 minor Spring applications** integrating frameworks such as **Spring Boot, Spring MVC, and Hibernate**.

- Assisted in **migrating legacy systems to AWS-based infrastructure**, improving system performance and scalability.

Key Accomplishments

- **AWS Certifications:** Completed AWS certifications for **AWS Cloud Practitioner** and **AWS Certified Developer Associate**.

- **On-the-Spot Award (ICICI):** Received a performance award for delivering multiple enhancements ahead of schedule and coordinating with other teams to resolve critical issues.

- **Delivery Excellence Award (Principal):** Awarded consecutively for two years (2023 & 2024) for consistent quality production releases without issues and commitment to timelines.

- **Spot Award (Principal):** Awarded 2025 for handling and solving multiple issues simultaneously

- **Cost Optimization:** Achieved significant cost savings by optimizing AWS infrastructure and presenting actionable insights to stakeholders.

Education

Bachelor of Technology in Computer Science   May 2020
Sree Chitra Thirunal College of Engineering, Thiruvananthapuram, Kerala
Relevant Coursework: Data Structures, Algorithms, Software Engineering, Cloud Computing

Projects

cloud-circuitbreaker   **GitHub: cloud-circuitbreake**
cloud-circuitbreaker: A distributed, cloud-native circuit breaker library published to maven central for AWS-based systems, with Spring Boot support and DynamoDB backend.

PR Viewer Application   **GitHub: PRaise**
PRaise: An application to track and view open PRs in a GitHub repository.

GitHub Profile Search App   **GitHub: Github-Profile-Search-App**
GitHub-Profile-Search-App: A ReactJS app with Hooks to search and view GitHub profiles.