Fernando Ibanez

Technical Lead | Senior Cloud & Software Engineer | AWS Certified

Summary

Senior Software Engineer and Technical Lead with 10+ years building scalable cloud systems on AWS. Experienced leading teams, designing distributed architectures, and delivering secure, high-performance applications for enterprise and government clients.

Hands-on expertise in AWS architecture, Java, Scala, and distributed microservices, with proven experience leading cross-functional teams, mentoring engineers, and driving architectural decisions that improve reliability, scalability, and developer efficiency.

AWS-certified across multiple disciplines, combining technical depth and leadership to deliver global-scale, customer-impactful platforms.

Core Competencies

Languages: Java (17/11/8), Scala, Python, TypeScript, JavaScript, Bash

Cloud: AWS

DevOps & Tools: Docker, Kubernetes, Kafka, Jenkins, Bamboo, ArgoCD, Grafana, Kibana, GitHub Actions,

Messaging & Streaming: Kafka, SQS, SNS

Frameworks & APIs: Spring Boot, Vert.x, REST, gRPC, OpenAPI/Swagger

Practices: Agile, TDD, BDD, CI/CD, Observability, Cloud Security

Professional Experience

CGI/BJSS Australia | Melbourne, Australia (Apr 2022 - Present)

One of the world's largest IT and business consulting services companies

Technical Lead | Senior Software & Platform Engineer | Cloud & DevOps

Queensland Digital Licence Application (DLA) - Department of Transport and Main Roads

Delivering cloud-native and backend engineering solutions for government digital transformation projects, focusing on serverless architecture, scalability, performance, and security in public cloud environments.

Key Achievements

- Implemented a serverless architecture on AWS (Lambda, API Gateway, S3, CloudFront), reducing infrastructure complexity and operational overhead.
- Integrated third-party liveness detection and facial recognition services to enable secure biometric verification.
- Automated infrastructure using **GitHub Actions** and **CloudFormation**.

Technical Environment

• AWS (Lambda, API Gateway, S3, CloudFront, Route 53, Secrets Manager, VPC, ACM, WAF, CloudFormation), TypeScript, Mulesoft, Auth0, GitHub Actions.

Macquarie Bank - Rates Management Systems - Financial Services

Conducted software engineering and support in AWS public cloud for a new system component, including frontend and backend applications, within Rates Management System to enhance the management and maintenance for all EOD Official Rates. The system provides a seamless way of managing the ownership of the rate paths and provide metadata about the rate paths.

Key Achievements

- Designed and implemented enhancements to a three-tier distributed system supporting the management of EOD official rates worldwide.
- Architected and implemented REST and gRPC interfaces, improving interoperability and performance across downstream systems.
- Designed and implemented multi-stage CI/CD pipelines in Bamboo and EKS-based microservice deployments with ArgoCD, enabling automated, GitOps-driven delivery across multiple environments.
- Delivered an ETL backfilling historical rate tool in Python.
- Collaborated with stakeholders in the US and Australia, and with application teams in India and Australia to deliver high-quality solutions.

Technical Environment

• AWS (EKS, RDS), Scala, Docker, ArgoCD, CI/CD (Bamboo), REST, gRPC.

Macquarie Bank - Payment Exception Management Platform - Financial Services

Modernized high-value CGM applications focusing on Extreme Inherit Risk (EIR) applications by migrating critical workloads from Data Centers to AWS public cloud, achieving improved reliability and compliance for extreme-risk workloads.

Contact

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Citizenship: Spanish and British

Residency: Australian Permanent Resident

Certifications

- AWS Certified Solutions Architect Associate
- AWS Certified SysOps Administrator Associate
- AWS Certified Data Engineer Associate
- AWS Certified Developer Associate
- AWS Partner: Generative AI Essentials (Business)
- Google Cloud: Prompt Design in Vertex AI

Education

- MSc. In Artificial Intelligence, 2014, *UPM, Madrid, Spain*
- Bachelor's Degree in Computer Science, 2011 UPM, Madrid, Spain

Key Achievements

- Successfully delivered a **lift-shift-uplift migration** of Oracle databases, JBoss-based applications, ElasticSearch cluster, Memcached clusters and Windows services to AWS, improving scalability, availability (Multi-AZ) and operational reliability.
- Collaborated across global teams (Sydney, Singapore, South Africa, India) and received formal recognition from Macquarie for engineering excellence.
- Mentored engineers and reviewed PRs to enforce high standards of delivery and best practices.

Technical Environment

AWS (ALB, EC2, RDS, EFS, S3, CloudFormation), CI/CD (Arturo/Max), Grafana, Splunk, JBoss, ElasticSearch.

BJSS UK | London, United Kingdom (Jan 2018 - Apr 2022)

An award-winning technology and engineering consultancy for business

Technical Lead | Senior Software Engineer | Consultant

Home Office - Event Streaming Platform - UK Government

Led and delivered large-scale backend and cloud solutions for government and financial clients across the UK, focusing on distributed systems, microservices, and event-driven architectures on AWS and Kubernetes.

Key Achievements

- Technical Lead for a mission-critical data streaming platform decoupling incoming events from immigration and citizenship systems to downstream analytics and storage services.
- Architected and maintained an event-driven platform processing thousands of business events per second, ensuring reliability and fault tolerance
- Led a cross-functional team to deliver high-quality components, improve DLQ management, and define platform governance standards.
- Implemented CI/CD automation and observability pipelines with Jenkins, Docker, Helm, and ELK Stack, reducing deployment friction and incident resolution times.
- Championed code review culture and mentored junior engineers across teams.

Technical Environment

AWS (S3, ECS, Lambda), Java, Spring Boot, Vert.x, Kafka, Kubernetes, Docker, Helm, Jenkins, ELK Stack, React, Python, Vagrant.

Lloyds Bank - Financial Services

Delivered automation and migration tools to streamline code generation and API validation, enhancing developer productivity and compliance.

Public Sector Project

Supported multiple short-term engagements in finance, transport, and healthcare, improving backend reliability and test coverage.

Earlier Experience

Senior Software Developer - Mobbill UK LTD | London, UK (Apr 2016 - Jan 2018)

A global carrier billing aggregator primarily specialising in emerging market

Worked as part of a team to develop a single API solution that integrated mobile payment technologies across multiple countries and operators, simplifying digital content payments for consumers.

Engineered scalable, high-availability solutions for global operations, successfully integrating with telecom carriers in India, the Philippines, Australia, and the UK.

Software Developer – PEX Software | London, UK (Aug 2013 – Apr 2016)

RealPage UK now, Focused on property management and resident solutions within the Private Rented Sector (PRS) and Student Accommodation.

Worked collaboratively to maintain and implement new features in a Student Accommodation Property Management System, improving usability and functionality for end users.

Contributed to both backend and frontend development, including real-time email processing and seamless payment integration such as Sagepay, Worldpay, PayPoint, SecurePay, 3D-Secure & Paypal.

Responsible for building a room reservation machine for YOTEL in multiple European airports.

Awards & Recognition

Received Recognition Award from the *Macquarie Bank Application Team (2024)* for outstanding contributions to cloud migration and backend engineering excellence within the Payments Exception Management Platform initiative and awarded by BJSS.