

JOSE ALBAN

Staff Software Engineer

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📍 West London, UK

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HIGHLIGHTS

- Strong IC with cross-team influence: architecture, standards, mentoring, reliability, security, and developer velocity
- Led core platform engineering in multiple London tech companies (BBC, M2A, Babylon, Sensat)
- Expert in cloud architecture, Go/TypeScript/Rust/Python languages, developer experience, CI/CD pipelines, packaging and deploying software.
- Track record of building mission-critical systems at scale, leading cross-team efforts, improving developer productivity, reliability, cloud cost efficiency, and compliance.
- Now focused on engineering foundations for AI product teams: data pipelines, inference infra, secure multi-region deployment, and high-throughput backend systems.

COMMERCIAL EXPERIENCE (15Y+)

Lead / Staff Software Engineer

Sensat

📅 January 2020 - Current

📍 London - UK

- Individual Contributor career, working closely with the CTO on top client's security concerns and international compliance of **data residency** and ISO standards
- Led core platform architecture for **spatial data** pipelines powering 3D digital twin operations across UK/US/AU/ME clients, handling 200TB+ data, 99.9999% uptime, and 1000+ concurrent users
- Designed and migrated **multi-region** infra with strict data residency constraints and achieved 60%+ lower deployment overhead
- CORE team leadership - managing **infrastructure architecture** and provisioning with pulumi, technical proposals, standards, sprints, implementation, testing, deployment, cross-team collaboration, mentored 3+ senior engineers and managers
- Serve as a **point of reference** to 10+ engineers for the full stack software development, from cloud infra to nodejs/golang backend and occasional angular frontend
- Built foundation to achieve **daily deployment** cadence with zero downtime via AWS ECS circuit breaker, automated testing, and monitoring/alerting for the entire platform, merging multiple repos into a monorepo and ensuring Slack communication is effective
- Maintained **Github Actions pipelines** running 1000+ jobs/week, reducing failures by 50%+ and build times by 30%+ through caching and parallelism

Senior Software Engineer

Babylon Health

📅 May 2018 - January 2020

📍 London - UK

- Designed and owned a Rust-based Kubernetes deployment tool used by 50+ engineers; reduced deployment errors by 70%+ and cut incident load across 12+ microservice teams.
- Led HIPAA/GDPR-compliant security upgrades: enforced TLS in-transit and encryption-at-rest across 10+ teams, standardising secure service practices.
- Interviewed 30+ candidates across engineering and product, shaping hiring standards.
- Mentored 15+ engineers (Junior → Senior) in backend, infra, and cloud best practices; served as internal architecture consultant.

Senior Software Engineer

M2A Media

📅 April 2016 - May 2018

📍 London - UK

- Built and operated large-scale live streaming and media delivery platforms (Python, Ruby, Bash) for UK, Germany, Japan, Canada, and US broadcasters.
 - Automated deployment pipelines and implemented robust testing (unit, acceptance, load), increasing reliability of critical content workflows.
 - Delivered highly-available, low-latency backend services and real-time processing pipelines; optimised performance and cost across AWS-hosted systems.
 - Mentored 3+ engineers in clean code, testing strategies, and high-quality delivery practices.
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Graduate / Senior Software Engineer

British Broadcasting Corporation (BBC)

 September 2013 - April 2016

 London - UK

- Built multi-threaded, highly-available Java microservices powering **BBC iPlayer**, serving millions of users weekly across global AWS regions.
 - Managed complex AWS infrastructure: multi-region, multi-account, high-volume workloads.
 - Shipped production changes via continuous delivery, owning end-to-end operations of business-critical systems.
 - Mentored contractors and engineers at different levels
 - Developed a banner component deployed across all BBC webpages, impacting millions of daily visitors.
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Web Developer

AlchemyBet

 October 2012 - August 2013

 Sheffield - UK

- Delivered backend web services (C#), database logic, automation scripts, and operational tooling.
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Systems developer

Blanski eletronica do Brasil

 August 2010 - August 2011

 Salvador - Brazil

- Built supervisory control software (Delphi/C++), including proprietary PLC communication protocols.
 - Developed industrial automation GUIs and contributed to embedded communication standards.
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EDUCATION (6Y)

MSc (Eng), Advanced Software Engineering

University of Sheffield

 September 2012 - September 2013

 Sheffield - UK

Dissertation: Cloud PaaS built on open-source technologies / Distinction (72%)

BEng, Electrical Engineering

Universidade Salvador

 January 2006 - July 2011

 Salvador - Brazil

Final project: C++/Delphi Supervisory System for industrial automation / First Class (71%)

LANGUAGES

English (Native-level), Portuguese (Native), Spanish (Fluent)

LEGAL

Permanent UK Residence / Spanish citizenship / 1 month's notice