

# JOSE ALBAN

## Staff Software Engineer

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## STAFF SOFTWARE ENGINEER

- 15+ years of experience designing, building, and operating distributed systems and cloud infrastructure for high-availability, low-latency, security-conscious applications.
- 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 (BBC, M2A, Babylon, Sensat), 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

### Lead / Staff Software Engineer

#### Sensat

⌚ January 2020 - Current

📍 London

- Led core platform architecture 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 enabling secure data residency and 60%+ lower deployment overhead
- Individual Contributor career, working closely with the CTO on top client's security concerns and international compliance of data residency and ISO standards
- CORE team leadership - managing infrastructure architecture and provisioning, technical proposals, standards, sprints, implementation, testing, deployment, cross-team collaboration, mentored 3+ 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

### Senior Software Engineer

#### Babylon Health

⌚ May 2018 - January 2020

📍 London

- 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.
- HIPAA (US healthcare regulation) and GDPR compliant development lifecycle via SSDLC, e.g. led the TLS in-transit and encrypted at-rest enforcement across 10+ teams
- Interviewed many Engineers and some Product people for different levels ranging from Junior to Senior
- Mentored other Engineers across the company on best practices dealing with our infrastructure, also served as architecture consultant. Became a reference in the backend/infrastructure domain.

### Senior Software Engineer

#### M2A Media

⌚ April 2016 - May 2018

📍 London

- Specification, Implementation (Python, Ruby, Bash), Test (unit, acceptance, load) and Operation of Live Streaming, Live to On-Demand, Packaging and Delivery of media services from scratch for well-established Media providers in the UK and abroad (Canada, Germany, Japan, US)
- Performance and cost-driven optimisation of concurrent highly-available low-latency critical backend Python services deployed on cloud-provisioned infrastructure (eg AWS) (Server / Serverless) or on-premise Linux instances
- Mentored other Engineers at diverse levels on best practices and high standards of implementing backwards compatible and testable code, releasing, committing, etc

## Graduate / Senior Software Engineer

### **British Broadcasting Corporation (BBC)**

⌚ September 2013 - April 2016

📍 London

- Built and maintained high-volume Java services underpinning BBC iPlayer, processing millions of requests/day and serving global audiences across AWS regions
- Managed complex global AWS infrastructure, including multiple accounts/regions/services
- Continuous Delivery of business-critical services (Java 7) for iPlayer and other Media Factory consumers, affecting millions of users every week
- Mentored contractors and engineers at different levels
- Developed frontend banner that affected every BBC webpage and millions of users worldwide

## Web Developer

### **AlchemyBet**

⌚ October 2012 - August 2013

📍 Sheffield

- Engineered web services (C#), databases, scripts, automated updates

## Systems developer

### **Blanski eletronica do Brasil**

⌚ August 2010 - August 2011

📍 Salvador - Bahia - Brazil

- Specification and implementation (Delphi/C++, Adobe Flash GUI) of a Supervisory System software from scratch for industrial laundry
- Took part in the development of a private automation protocol between a PLC and PC (Windows)

## **EDUCATION (6Y)**

### MSc(Eng) Advanced Software Engineering

#### **University of Sheffield**

⌚ September 2012 - September 2013

Dissertation subject: Developing the University of Sheffield Cloud PaaS based on open source software First Class / Distinction (72%)

### BEng Electrical Engineering

#### **Universidade Salvador**

⌚ January 2006 - July 2011

Final essay subject: Aspects of developing a Supervisory System in C++/Delphi Emphasis: Electronics / First Class (71%)

## **STRENGTHS**

Pragmatism

Patience

Minimalism

Leadership

Diplomacy

Innovative

## **LANGUAGES**

English



Portuguese



Spanish



## **LEGAL**

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