# JOSE ALBAN

## Staff Software Engineer

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## STAFF SOFTWARE ENGINEER

- 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 (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 (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 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, 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, 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.
- 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 20+ candidates for Engineering and Product, at 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 - UK

- 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 - 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.

## Web Developer
**AlchemyBet**

📅 October 2012 - August 2013　　　　　📍 Sheffield - UK

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

## 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.

# 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