Joaquin Casares

Aug 2023 – Present (6 months) | CONSULTANT @ AXONOPS | Produce a performance comparison and present it at the Al/Cassandra Summit, co-lead four training sessions on monitoring **Apache Cassandra**, and field technical questions at the booth.

Dec 2021 – Nov 2022 (1 year) | SENIOR SOFTWARE ENGINEER @ AUDIUS Own CI/CD automation, observability, and release certification for a 119-node network (23 third-party node operators) servicing 283M+ requests and 5M+ unique users monthly.

- Introduce Prometheus metrics and Grafana alerts across Slack, Discord, and PagerDuty for Python and TypeScript codebases.
- Automate staging reservations, production deployments, Ethereum contract governance, and Audius network releases using CircleCI.
- Develop first load test against the staging environment using Node.js to generate POA Network-backed entities proportional to production.

Oct 2018 – Dec 2021 (3 years) | SOFTWARE DEVELOPMENT ENGINEER III @ ADOBE Decompose the Magento order management monolith into scalable inventory-specific **Go microservices** and support the legacy sourcing and configuration systems.

- Document GitOps infrastructure while maintaining multiple Jenkins X, Terraform, Flux, Helm Operator, AWS, ELK, and EKS environments.
- Benchmark using Gatling scenarios written in Scala, collecting results in Kibana and DataDog, to confirm Black Friday readiness.
- Define LDAP-restricted Vault hierarchies and rotate high-strength secrets consumed by Kubernetes via Sealed Secrets and Helm Secrets.
- Migrate services from DataDog to Prometheus/Grafana, ElasticSearch/Kibana to Splunk, and implement Adobe compliance requests.

Aug 2016 – Oct 2018 (2 years) | CONSULTANT @ THE LAST PICKLE | Produce runbooks and resolve client issues for **Apache Cassandra** clusters as large as 800+ nodes. TLP was headquartered in New Zealand with 13 geo-distributed employees.

- Develop Grafana monitoring dashboards and alerts while providing critical support for Cassandra latency degradation at T-Mobile.
- Automate actionable reports focused on Cassandra, disk, and Linux configurations, logs, and data model analysis. Still in use in 2024.
- Deliver Docker-validated runbooks for Cassandra issue resolution, maintenance and preventative care, S3 and EBS backup strategies.
- Create a Docker Compose dashboard development environment with Grafana, Cassandra, Reaper, Prometheus, collectd, and ELK.

Jul 2015 – Aug 2016 (1 year) | INTERNAL API ENGINEER @ UMBEL Architect an asynchronous Python API backed by Apache Cassandra and Dynamo using volatility-based decomposition, microservice, event driven design, and CQRS principles.

- Increase Celery performance by 3x through asynchronization and Cassandra features while reducing Cassandra cluster size by 50%.
- Design and implement an asynchronous data object that handles denormalization, client-side retries, metrics, hydration, and transactions.
- Kickstart Umbel Labs innovation initiatives through big data distributed systems, blockchain technologies, and virtual reality proposals.
- Heavily follow volatility-based decomposition and borrow from Microservice, Event Driven Design, Time Series, and CQRS principles.

Aug 2014 – Jul 2015 (1 year) | **DEMO ENGINEER @ DATASTAX** Use best practices and common use cases to develop enterprise and community facing demos for **DataStax Enterprise**. Witness 23x growth to 440 geo-distributed employees.

Dec 2012 – Jul 2014 (1.7 years) | SOFTWARE ENGINEER IN TEST @ DATASTAX Bootstrap Python, Java, and C++ client-driver testing harnesses for Apache Cassandra. Collaborate with Marketing, Documentation, Training, and Product teams.

Jan 2011 – Jan 2013 (2 years) | SUPPORT ENGINEER @ DATASTAX Support DataStax Enterprise: Apache Hadoop, Apache Solr, and DataStax Opscenter over Apache Cassandra, in on-prem and AWS-hosted production environments. Employee #9.

- Develop a full-stack demo, training, and certification platform using Python, Flask, Jinja2, Bootstrap, Docker, EC2, and Azure.
- Validate, test, and teach Automaton, the internal performance and regression tool run on hardware, EC2, and RightScale, written in Python.
- Primary support contact for 9 months across 16+ products, 200+ organizations before training 5 replacement hires, manager included.
- Train 7 engineers and 2 managers upon transition from Support and QA departments. Support training material still in use in 2024.
- Create internal knowledge base, contribute to public wikis, design auto-clustering AMI, and publish blog posts that drive traffic in 2024.

Jun 2007 – Present (17 years) | OWNER @ LEGAL ANIMATION CONSULTING Design and produce customized storyboards, models, and animations, using **Blender**, that meet budget and deadline targets for legal proceedings.

Aug 2005 - Dec 2010 (5.5 years) | THE UNIVERSITY OF TEXAS AT AUSTIN

Bachelor of Arts Computer Science

Advanced **Digital Media Institute** Bachelor of

Bachelor of Science Radio-Television-Film

Interdisciplinary Study Digital Arts & Media New Media Initiative: Advanced Communication Technologies Laboratory