

Joaquin Casares

SOFTWARE DEVELOPMENT ENGINEER III @ ADOBE

October 2018 – Present (2.3 years)
San Antonio, Texas

Decompose the Magento order management monolith into scalable inventory-specific **Go microservices** supporting ecommerce and retail omnichannels.

- 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**.
- Create and maintain **Jenkinsfiles** to confirm each component passes unit, integration, and contract tests for each pull requests.
- Migrate services from **DataDog** to **Prometheus/Grafana**, **ElasticSearch/Kibana** to **Splunk**, and implement Adobe compliance requests.

CONSULTANT @ THE LAST PICKLE

August 2016 – October 2018 (2 years)
San Antonio, Texas

Produce runbooks and resolve client issues within a 6-person **Apache Cassandra** consulting team. TLP is based out of New Zealand with 13 geo-distributed employees.

- Develop **Grafana** monitoring dashboards and provide critical support for **Cassandra** latency degradation for T-Mobile.
- Deliver **Docker**-validated runbooks for **Cassandra** issue resolution, maintenance and preventative care, **S3** and **EBS** backup strategies, **Linux**-level configurations, and performance benchmarking for multiple clusters, including a 500+ node multi-region cluster in **AWS**.
- Create a **Docker Compose** environment for **Prometheus** dashboard development which includes **Cassandra**, **Reaper**, **Logspout**, **Grafana**, **Graphite**, **collectd**, and the **ELK Stack**. Automation and resource tagging provided via containerized **AWS CLI**, **jq**, and **Bash** scripts.

INTERNAL API ENGINEER @ UMBEL

July 2015 – August 2016 (1 year)
Austin, Texas

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 through **Cassandra**-based optimizations requiring 50% fewer workers at 30% of the original run time.
- Design and implement an **asynchronous data object** that handles denormalization, client-side retries, metrics, hydration, and transactions.
- Use **Sentry**, **Jira**, **Gitlab**, **Docker Compose**, **Python nose**, and **Slack** for issue alerts, tracking, development, testing, and discussion.
- Kickstart Umbel Labs innovation initiatives through **big data distributed systems**, **blockchain technologies**, and **virtual reality** proposals.

DEMO ENGINEER @ DATASTAX

Aug 2014 – July 2015 (1 year)
Austin, Texas

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.

- Develop **Cornerstone**, a full-stack demo platform, to administer training to DataStax Certified Partners using **Docker**, **EC2**, and **Azure**.
- Seed offline conference demos using **Python**, **Flask**, **Jinja2**, **Bootstrap**, **Google Charts**, and **Metagener**.

SOFTWARE ENGINEER IN TEST @ DATASTAX

Dec 2012 – Jul 2014 (1.5 years)
Austin, Texas

Develop multiple client-driver testing harnesses for **Apache Cassandra**. Collaborate with Marketing, Documentation, Training, and Product teams.

- Bootstrap **Python nose** and **Java TestNG** regression harnesses for the **DataStax Drivers for Apache Cassandra** using **Jira** and **Jenkins**.
- Validate, test, and teach **Automaton**, the internal performance and regression tool run on hardware, **EC2**, and **RightScale**, written in **Python**.
- Train 4 of 5 replacement hires, manager included, and document procedures on transition.

SUPPORT ENGINEER @ DATASTAX

Jan 2011 – Jan 2013 (2 years)
Austin, Texas

Support **DataStax Enterprise**: **Apache Hadoop**, **Apache Solr**, and **DataStax Opscenter** over **Apache Cassandra**, in on-prem and **AWS** production environments. Employee #9.

- Utilize **Zendesk**, **forums**, **IRC**, **mailing lists**, **phone calls**, and **remote sessions** to support client-hosted production **Linux** environments.
- Primary support contact for 9 months across 16+ products, 200+ organizations before training 5 replacement hires, manager included.
- Create **knowledge base**, **wikis**, and **AMI** along with **Python** tools, triggers, cron jobs, and widgets for customers and multiple departments.

THE UNIVERSITY OF TEXAS AT AUSTIN

Bachelor of Arts **Computer Science**

New Media Initiative: **ACTLab**

Bachelor of Science **Radio-Television-Film**

Advanced **Digital Media Institute**

Interdisciplinary Study **Digital Arts & Media**

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