# Adrián López Calvo

Software Engineer

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Adrián López Calvo

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Experience on *backend* web development, databases and micro services. I'm the most familiar with the *Python* ecosystem with a preference for open source tools.
Things I love to work with include: APIs, testing, continuous integration, databases and performance tuning

## SKILLS

| **Programming** | **Backend** | **DevOps** | **Frontend** |
|---|---|---|---|
| Advanced | Advanced | Intermediate | Beginner |
| python \| go \| java \| ruby \| javascript \| git \| testing | django \| celery \| sql \| postgresql \| mysql \| mongodb \| kafka \| elasticsearch \| web services \| distributed micro services \| scrapping | ansible \| docker \| kubernetes \| vagrant \| continuous integration \| amazon web services \| google cloud \| travis \| gitlab ci | html \| vue \| django & jinja templates \| css \| jquery |

## WORK EXPERIENCE

### Software Engineer at Datadog

**July 2020 - Current**

https://www.datadoghq.com/

**Skills acquired:** go \| java \| python \| kafka \| postgresql \| micro services \| grpc

I joined after acquisition of Undefined Labs to build the new product for CI Visibility.

- Built and evolved the data ingestion pipeline for CI webhooks.
- Designed a common data model for data from the different CI systems in the market.
- Main responsible for the integrations of the CI Visibility product with Gitlab, CircleCI and Azure DevOps.
- Built a service to ingest jUnit XML test exports. This makes use of a streaming parser that minimizes memory usage.
- Rewrote a big part of the PostgreSQL schema and queries, with better normalized tables and pre-aggregating results to fix latency issues on the APIs. The latency improvements were huge and it fixed most of the reliability issues.
- Conducted coding interviews to help grow the team and I also mentored interns and new engineers.

### Software Engineer at Undefined Labs

**May 2019 - July 2020**

https://undefinedlabs.com

**Skills acquired:** python \| django \| postgresql \| graphql \| postgresql

I joined as the only backend engineer in cooperation with the CTO, to build a new SaaS product for visibility on Flaky tests and CI.

- Evolved and maintained the GraphQL API. This was the core used by the React frontend of the product.
- Optimized recursive SQL queries with PostgreSQL to iterate the Git branches as in Git log.
- Maintained the data ingestion code supporting SDK engineers. The data was ingested from SDKs to PostgreSQL.
- Adding Dataloaders to the GraphQL API to improve latency of the app.

### Software Engineer at Cabify

**December 2017 - May 2019**

https://cabify.com

**Skills acquired:** python \| ruby \| vue \| elixir \| mysql \| docker \| kubernetes \| gce \| google pubsub

I kick-started the Internal Tools team working on internal features for logistics and marketing departments.

- Built a service to delete and anonymize user data in compliance with European regulations.
- Developed a service to give out price discounts in mass to user segments targeted by marketing.
- Mentored less experienced engineers that joined the team.

### Backend Developer at HundredRooms

**June 2016 - September 2017**

https://hundredrooms.com

**Skills acquired:** python \| celery \| scrapy \| asyncio \| mysql \| mongodb \| ansible \| docker \| kubernetes \| gce \| grafana

Worked on getting the data processing core of the product to the next level.

- Migrated a big part of the systems from in-house servers to the cloud with Ansible.
- Moved most of them to Docker and a Kubernetes cluster.
- Established a reliable deployment process and adequate testing tools.
- Implemented real time data synchronization between MongoDB and MySQL.
- Integrated external data into the platform through several APIs and scraping.
- Developed asynchronous components of the system with Asyncio.
- Upgraded a huge part of the code base from Python 2 to 3.
- Worked on improving the database schema.

### Software Engineer at Smartvel

**October 2014 - June 2016**

https://smartvel.com

**Skills acquired:** python \| django \| django-rest-framework \| celery \| postgresql \| postgis \| redis \| mongodb \| elasticsearch \| ansible \| vagrant \| aws

Built products of the company focusing mostly on backend and web development.

- Migrated the processing core to an asynchronous queue system with Celery.
- Managed the work queues: routing, priorities, monitoring, concurrency, autoscaling, deployments.

- Built a component to translate texts, obtained through scrapping, automatically.
- Implemented several tools to improve names and boundaries in the geographic data.
- Maintained geographic boundaries with QGIS and shapefiles.
- Set up the MongoDB server with Ansible.
- Handled several major upgrades such as: MongoDB 2 to 3, Django 1.7 to 1.9 or Rest Framework 2 to 3.
- Optimized critical SQL queries, including Postgresql extensions such as postgis, trigrams and full text search.

## EDUCATION

**Scrum Coaching** at Agilar Consultancy
**2017 - 2017**

**BS Computer Science** at Universidade de Santiago de Compostela
**2009 - 2013**

**Major courses:** oo programming | data structures & algorithms | software engineering | operative systems | networks | system administration | web development | web services | distributed computing

## LANGUAGES

**Spanish**
native speaker

**English**
advanced

**Galician**
native speaker

## REFERENCES

Available upon request.