



# Clément Nodet

Software Engineer

## Profile

High-caliber software engineer and technical leader.

Wide breadth of experiences; from bootstrapping scrappy offshore teams in Vietnam, to delivering an ambitious new native database product at Google.

I have strong technical expertise in distributed systems, API design, large-scale software development, as well as strategic and operational management know-how.

## Employment History

### Staff Software Engineer at Google, San Francisco

March 2019 — Present

As tech lead the Cloud Firestore dataplane, I lead the team that delivers querying features, index management, import / export / backups, Cloud APIs, and integration with downstream systems (security rules, function triggers).

### Senior Software Engineer at Google, San Francisco

March 2015 — February 2019

Over a period of 3 years leading up to the [GA launch](#) of Cloud Firestore, I led a team of 6 engineers, evolving the 10-years old Datastore backend to be the foundation for the new Firestore APIs, data model, and first-class integration with the broad GCP production suite. All while still delivering sizeable individual technical contributions. Highlights:

- full implementation of the Firestore query planner, and index truncation
- strongly consistent indexing and hierarchical index-backfill state machines
- idempotent and resumable streaming write protocol

Before that, as individual contributor on the Datastore team, I designed and implemented several foundational features, for example:

- entity and query snapshot versions
- compare-and-set mutations, partial updates and reads
- index skipping queries

### Software Engineer at Google, Mountain View

September 2012 — February 2015

Tech lead for NLU team focused on short-term summarization. Highlights:

- launched review summarization and tips extraction for the Google Play Store.
- POC for click-to-install ads generation pipeline from app assets

Before that, tech lead for internal tool calculating bonus payouts for the ad-sales organization. Notable achievements:

- Expanded scope and capabilities of the tool to onboard enterprise sales, reverting leadership decision to buy a third-party tool

## Details

San Francisco, United States,  
+16508140476  
[clement.nodet@gmail.com](mailto:clement.nodet@gmail.com)

## Skills

Distributed Systems

Databases

Cloud Computing

Java

Python

C++

## Languages

French

Vietnamese

## Hobbies

Sailing

Oil painting

Cooking

## Engineering & Operations Director at Dirox, Ho Chi Minh City, Vietnam

October 2008 — August 2012

Took on a leadership role at Dirox, helping the growth of the company on multiple fronts:

- set up the hiring pipeline, mentoring and technical training
- re-focussed the sale pipeline on startups and ad agency, both local and international
- successfully positioned the company as the production house of choice of Lowe + Partners Vietnam
- bootstrapped new development teams (iOS, Django, Magento) for diversification
- Cemented engineering practices and tooling: SCM, continuous deployment, testing

## Technical advisor at Digital Recognition, Ho Chi Minh City, Vietnam

2009

Content moderation and copyright protection startup, combining image and video matching technology with content classification. Highlights:

- Technical architecture design and open-source technology assessment and integration (Scribe, GlusterFS, Kestrel, etc...)
- Lead a small R&D team on high dimensionality kNN indexing & search
- Implementation of the API backend in Django and Kestrel MQ
- Implementation of the moderation frontend, optimized for high-throughput

## Software Engineer at Dirox, Ho Chi Minh City, Vietnam

September 2006 — September 2008

LAMP development for a small (15 people) software company based in Vietnam. Initially targeting website and intranet development, the in-house PHP framework I implemented ended up powering the mobile portal ad-server for Vodafone France. Selected project work:

- Sofialys AdServer, developed on front-end (campaign management, reporting) and back-end (ad publication, serving, capping). Supervised infrastructure scaling during qualification load-test by Vodafone.
- Implementation of the VPOD.tv PHP API for video publishing

## 🎓 Education

### ME, Computer Science, INSA, Lyon, France

September 2003 — August 2006

- [Ranked #1](#) engineering school in France
- Top 10 student
- 3 internships, including 1 in research lab on video segmentation and classification

### AD Computer Science, IUT2, Grenoble, France

February 2020 — February 2020

- Valedictorian
- Internship in research lab, developed software for medical image annotation