

# Isaac Bernat

Full-stack engineer

Latest cv + code samples:  
[github.com/isaacbernat/cv](https://github.com/isaacbernat/cv)

PyCon Sweden 2019 talk:  
[youtu.be/asZ0SDTKqvM](https://youtu.be/asZ0SDTKqvM)

Nationality: Spanish  
Stockholm, Sweden  
✉ [isaac.bernat@gmail.com](mailto:isaac.bernat@gmail.com)



## Experience

- Jan. 2019 - Present    **Full-stack engineer**, *Ivbar (LOGEX group)*, Stockholm, Sweden.
  - *Chronics*: enable processing of non-episodic patient groups.
  - *Subgroups*: multidisciplinary project to build case-mix decision trees.
- Mar. 2018 - Jan. 2019    **Back-end engineer**, *Ivbar (LOGEX group)*, Stockholm, Sweden.
  - *NKBC*: processor for National Quality Registry for Breast Cancer.
  - *MECE filtering*: preserving privacy and avoiding triangulation.
- Jun. 2016 - Jan. 2018    **CTO & CFO**, *Productos Aditivos*, Montcada i Reixac, Spain.
  - **Information**: market intelligence, ERP migration, transition to SII...
  - **Bank negotiation**: saved 63465 EUR on loan interests (34.77%).
    - From: 7-year @ 2.95% & 4 year @ 1.50%+euribor12m.
    - To : 7-year @ 2.00% & 4-year @ 1.29% & 3-year @ 0.87%.
- Sep. 2014 - Jun. 2016    **Full-stack engineer**, *Wrapp.com*, Stockholm, Sweden.
  - *Opsweb*: build web-based AWS deploy system using Dart, Sass and Jade.
  - *Wrappmin*: merchant tool (transaction mapping, offer creation) in React.
- Dec. 2013 - Sep. 2014    **Data engineer**, *Wrapp.com*, Stockholm, Sweden.
  - *Data Warehouse*: design and optimise ETL pipeline for Redshift.
  - *Wrappreport*: develop features and deliver reports with in-house built CRM.
  - *Dashboards*: build real-time dashboard with business and system KPIs.
- Mar. 2013 - Dec. 2013    **Lead web engineer**, *Wrapp.com*, Stockholm, Sweden.
  - **E-mail service**: build framework for pre-flighted design supporting:
    - *A/B test*: subjects, preheader-text, images, conditional rendering...
    - *Compatibility*: >1M weekly newsletters to diverse e-mail clients/devices.
  - **Web client**: landing pages + Wrapp 1.0 web app.
- Oct. 2012 - Mar. 2013    **Back-end engineer**, *Wrapp.com*, Stockholm, Sweden.
  - *News service*: with in-memory (testing) and MySQL (production) backends.
  - *Recommender System*: architect and develop from scratch.
- Feb. 2012 - Jul. 2012    **Software developer**, *FXstreet.com*, Barcelona, Spain.
  - *Maintenance*: 17-language multisite in C# + .net MVC3 + jQuery on Azure.

## Informatics skills

Back-end  
engineer

- **Python**: >30 microservices at Wrapp 2.0; Monoliths at Ivbar + Wrapp 1.0
  - *Speaker*: PyCon SE 2014: Pycrastinate: TODO less, DO more.  
youtube←PyCon SE 2019: From > 1 Billion years to < 1 second.
  - *Maintainer*: "users" (260 commits), 9 contributors (Wrapp).
- **Go**: 12 microservices at Wrapp 2.0.
  - *Maintainer*: "offers" (1206 commits), 12 contributors (Wrapp).
- **Misc**: GitHub samples → /docker-pudb
  - *Technologies*: postgresSQL, MySQL, Docker, AWS, Unix-like, REST...
  - *Scrapping*: >50 different scrappers and >>100.000 elements.
  - *Optimisation*: GitHub → /presentations/tree/master/optimise.

Front-end  
engineer

- **Web**: landing pages + Wrapp 1.0 web app + other 10 repos:
  - *Maintainer* (fr. 2013): "consumer-web" (6026 commits), 15 contributors.
- **Misc**: GitHub samples → /rhythm-radar, /dartmuti, /panepond...
  - *Technologies*: React, Sass, JSON, responsive web, d3, Angular2, Dart...
  - *Planning*: Scrum, Kanban, retrospectives, Planning poker...

## Education

Dec. 2011

**M.Sc. Thesis in Informatics**, NTNU, Trondheim, Norway.

*Publication*: Test-Driven Conceptual Modelling: evaluation through a case study.

*Supervisors*: John Krogstie, Albert Tort and Antoni Olivé.

*Grade*: A with Highest Honours.

2006 – 2011

**Degree in Informatics Engineering**, UPC-BarcelonaTech, Barcelona, Spain.

*Specialisation area*: Data management and operations.

*Specialisation area*: Software engineering and information systems.

## Languages

Catalan

**Native**

"Preparació per al nivell C2 (Superior) de valencià" by UPV - 2014

Spanish

**Native**

"42 Concurso Nacional de Redacción" 4th prize (Barcelona) - 2002

English

**C2**

"Cambridge's Certificate of Proficiency in English" - 2007

Swedish

**A2**

"Svenska 1 med Settle Into Stockholm" - 2016

Norwegian

**A2**

"EILC Norwegian language course" - 2011

## Certificates

2010 - Present

**Coursera and others**, check [github.com/isaacbernat/cv](https://github.com/isaacbernat/cv).

Apr. 2011

**3 Day Startup Barcelona**, participant.

Oct. 2008

**European driving licence**, category B.

## Hobbies & interests

**Gaming**

Eurogames, FPS and 4x.

**Keyboard music**

Harpsichord and piano.

**Learning**

Articles, books, MOOCs...

**Comp. Science**

History and practise.

2006 – 2010

**VP & Treasurer**, Cultural Association 'La Fletxa Negra', Premià de Dalt, Spain.