

# Isaac Bernat

Full-stack engineer

Latest version at:  
[github.com/isaacbernat/cv](https://github.com/isaacbernat/cv)

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## Experience

- Mar. 2018 - Present    **Back-end engineer**, *Ivbar Institute*, Stockholm, Sweden.
- **NKBC**: processor for National Quality Registry for Breast Cancer.
- 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 ReactJS.
- Dec. 2013 - Sep. 2014    **Data engineer**, *Wrapp.com*, Stockholm, Sweden.
- **Data Warehouse**: design and optimise ETL pipeline for Redshift DW.
  - **Wrappport**: 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...
    - **Tracking**: open rate, click through rate per element, segmentation...
    - **Compatibility**: >1M weekly newsletters to diverse e-mail clients/devices.
  - **Web client**: landing pages + Wrapp 1.0 web app.
    - **Third party integration**: Facebook, Heroku, Mixpanel, Wrapp API...
    - **Implemented**: gifting flow, mobile views, login A/B test...
- 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**: samples at */netflix-to-srt*, */pycrastinate* or */gae-shorten* on GitHub:
  - *Speaker*: PyCon SE 2014; lightning talks at EuroPython + PyData Berlin 2014.
  - *Maintainer*: "users" (67/260 commits), 9 contributors (*Wrapp*).
  - *Production-ready contributions*: >>20.000 lines in >30 repos.
- **Go**: microservices at *Wrapp* 2.0.
  - *Maintainer*: "offers" (284/1206 commits), 12 contributors (*Wrapp*).
  - *Production-ready contributions*: ~13.000 lines in >12 repos.
- **Misc**: samples at */docker-pudb* on GitHub:
  - *Technologies*: postgresSQL, MySQL, Docker, AWS, Unix-like, REST...
  - *Scrapping*: >50 different scrappers and >>100.000 elements.

Front-end engineer

- **Web**: landing pages + *Wrapp* 1.0 web app:
  - *Maintainer* (fr. 2013): "consumer-web" (660/6026 commits), 15 contributors.
  - *Maintainer*: "web-static" (58/122 commits), 4 contributors.
  - *Production-ready contributions*: >30k (JS), >6k (Dart) lines in >10 repos.
- **Misc**: samples at */rhythm-radar*, */dartmuti* or */panepond* on GitHub:
  - *Technologies*: d3.js, angular2.js, Dart, Sass, JSON, responsive web...
  - *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-Barcelona Tech, Barcelona, Spain.

*Specialisation area*: Data management and operations.

*Specialisation area*: Software engineering and information systems.

## Languages

Catalan	<b>Native</b>	"Preparació per al nivell C2 (Superior) de valencià" by UPV - 2014
Spanish	<b>Native</b>	"42 Concurso Nacional de Redacción" 4th prize (Barcelona) - 2002
English	<b>C2</b>	"Cambridge's Certificate of Proficiency in English" - 2007
Swedish	<b>A2</b>	"Svenska 1 med Settle Into Stockholm" - 2016
Norwegian	<b>A2</b>	"EILC Norwegian language course" - 2011

## Certificates

2011 - Present

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

Apr. 2011

**3 Day Startup Barcelona**, participant.

Dec. 2010

**Course on Stocks and Derivatives**, Bolsa de Madrid-Software Financiero Bolsa.

Oct. 2008

**European driving licence**, category B.

## Hobbies & interests

<b>Gaming</b>	Eurogames, FPS and 4x.	<b>Classical Music</b>	Esp. period performances.
<b>Learning</b>	Articles, books, MOOCs...	<b>Comp. Science</b>	History and practise.
2006 – 2010	<b>VP &amp; Treasurer</b> , Cultural Association 'La Fletxa Negra', Premià de Dalt, Spain.		