Isaac Bernat
Full-stack engineer

Latest version at:
github.com/isaacbernat/cv

Nationality: Spanish
Stockholm, Sweden
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Experience

Jan. 2019 - Present
Full-stack engineer, *Ivbar Institute*, 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 Institute*, 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 DW.
- *Wrapport*: 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**: GitHub samples → /netflix-to-srt, /gae-shorten, /pycrastinate...
  - *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*: postgreSQL, 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-Barcelona Tech*, 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 for specifics.*
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.		