

Isaac Bernat

Full-stack engineer

Latest version at:
github.com/isaacbernat/cv

PyCon Sweden 2019 talk:
From >1 Bn years to <1 sec
youtu.be/asZ0SDTKqvM

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Experience

- Jan. 2019 - **Full-stack engineer**, *Ivbar Institute*, Stockholm, Sweden.
Present
 - *Chronics*: enable processing of non-episodic patient groups.
 - *Subgroups*: multidisciplinary project to build case-mix decision trees.
- Mar. 2018 - **Back-end engineer**, *Ivbar Institute*, Stockholm, Sweden.
Jan. 2019
 - *NKBC*: processor for National Quality Registry for Breast Cancer.
 - *MECE filtering*: preserving privacy and avoiding triangulation.
- Jun. 2016 - **CTO & CFO**, *Productos Aditivos*, Montcada i Reixac, Spain.
Jan. 2018
 - **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 - **Full-stack engineer**, *Wrapp.com*, Stockholm, Sweden.
Jun. 2016
 - *Opsweb*: build web-based AWS deploy system using Dart, Sass and Jade.
 - *Wrappmin*: merchant tool (transaction mapping, offer creation) in React.
- Dec. 2013 - **Data engineer**, *Wrapp.com*, Stockholm, Sweden.
Sep. 2014
 - *Data Warehouse*: design and optimise ETL pipeline for Redshift.
 - *Wrappport*: develop features and deliver reports with in-house built CRM.
 - *Dashboards*: build real-time dashboard with business and system KPIs.
- Mar. 2013 - **Lead web engineer**, *Wrapp.com*, Stockholm, Sweden.
Dec. 2013
 - **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 - **Back-end engineer**, *Wrapp.com*, Stockholm, Sweden.
Mar. 2013
 - *News service*: with in-memory (testing) and MySQL (production) backends.
 - *Recommender System*: architect and develop from scratch.
- Feb. 2012 - **Software developer**, *FXstreet.com*, Barcelona, Spain.
Jul. 2012
 - *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:* 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.

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.