

 LinkedIn **isaacbernat**

Canadian open work permit holder

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Education

NTNU

M.Sc. THESIS IN INFORMATICS

 Dec 2011  Trondheim, Norway

UPC-BARCELONATECH

BE IN INFORMATICS

 2006-2011  Barcelona, Spain

Languages

Native: Catalan, Spanish.**Proficient:** English (Cambridge).**Basic (A2):** Swedish, Norwegian.

Backend skills

PYTHON

- **Pycon SE** speaker (2014, 2019).
- +30 **microservices**.
- 3 **Monoliths** (incl. Django).
- **Scrapping:** +50 sites (scrapy).
- pytest • PEP8 • ipdb • black...

OTHER

- **GO:** 12 microservices.
- **Techs:** PostgreSQL • Unix-like • REST • Git • MySQL • Docker • GraphQL • AWS • test • async • ETL • DWH • debug • ...
- **Optimise:** 10¹⁸x speedup.

Achievements

SUBSCRIPTION MODEL

- **Lead architect:** scaled 2022-03.
- By Q4 represents **59.3% GMV** (packages, B2B and group classes add to 32.7%).
- **LTV: +41%** YoY in Q2 2022 attributable to subscriptions.
- **ltv/cac:** 1.4x → 3.0x in 4 mo.
- **A/B test:** Longest-running experiment so far at Preply.

Q&A PAGE, BLOG

- **A/B tests:** Q3, Q4 2020.
- **Blog:** +300% NPCs.
- **Q&A:** +800% CVR.
- **Traffic:** 1M new visitors/mo.

1-DAY IMPROVEMENTS

- **Cost control:** Avoid running unnecessary tests (\$31k/yr).
- **Hero page:** Phone user on mobile version (+27% GMV, +20% hours bought).


Experience

PREPLY.COM Mar 2020 - current

 Jun 2022 – current

BARCELONA, SPAIN

Senior Backend Engineer I (P7)


- **Incidents:** command, scribe, mitigate and help fix 15+ up to SEV2. Presented postmortems, including those caused by other teams.
 - **Subscription events:** enabled data teams to track state transitions.
 - **Yearly subscriptions:** implemented multiple periods and policies.
 - **Group lessons:** lead backend and handover project to new team.
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- Mar 2020 – Jun 2022 Backend Engineer III (P6)
- **Subscriptions:** transition a package-only company:
 - *Backend:* lead architect, re-used existing components for MVP.
 - *Volume:* process 150k+ subscription renewals/mo (Q1 2023).
 - *Cohorts:* created custom system to support 5 A/B tests in parallel.
 - *Features:* cancel, pause, upgrade, downgrade, expire, carry...
 - **Migrate:** Q&A app backend from Django templates to GraphQL.
 - **Monitor:** on-call rotation, set up alerts, dashboards (e.g. Grafana).
 - **Interview:** 13 backend candidates. 2 valuable members hired.

IVBAR.COM Mar 2018 - Mar 2020

 Jan 2019 – Mar 2020

STOCKHOLM, SWEDEN

Fullstack Engineer

- **Chronics:** enabled processing of non-episodic patient groups.
 - **Subgroups:** built case-mix decision trees (multidisciplinary project).
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- Mar 2018 – Jan 2019 Backend Engineer
- **Processor:** National Quality Registry for Breast Cancer (NKBC).
 - **MECE filters:** made to preserve privacy and avoid triangulation.

PRODUCTOS ADITIVOS

 Jun 2016 – Jan 2018

MONTCADA I REIXAC, SPAIN

CTO & CFO




- **Information:** market intelligence, ERP migration, transition to SII...
- **Cost reduction:** saved 64k EUR on 3y and 7y fix-rate loans.

WRAPP.COM Oct 2012 - Jun 2016

 Sep 2014 – Jun 2016

STOCKHOLM, SWEDEN

Fullstack Engineer

- **Opsweb:** built web-based AWS deploy system - Dart, Sass and Jade.
 - **Wrappmin:** merchant tool (map transactions, create offers) in React.
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- Dec 2013 – Sep 2014 Data Engineer
- **Data Warehouse:** designed and optimised ETL pipeline for Redshift.
 - **Wrappreport:** delivered reports and features with in-house CRM.
 - **Dashboards:** updated real-time, with business and system KPIs.
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- Mar 2013 – Dec 2013 Web Engineer
- **Email service:** built framework for pre-flighted design supporting:
 - *A/B test:* subjects, preheader-text, images, conditional render...
 - *Compatibility:* +1M weekly newsletters to diverse clients/devices.
 - **Web client:** landing pages, Wrapp 1.0 web app...
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- Oct 2012 – Mar 2013 Backend Engineer
- **News service:** in-memory (testing), MySQL (production) backends.
 - **Recommender System:** architected and implemented from scratch.

More information at <https://github.com/isaacbernat/cv>