Gerard Casas Saez

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Education

- **University of Colorado Boulder** — Boulder, CO
  M.S., Computer Science (GPA 4.00) — *August 2017 - 2019 (expected)*
  - **Courses:** Analysis and Design of Algorithms, User Centered Design, Database Systems.

- **Universitat Politècnica de Catalunya** — Barcelona, Spain
  B.S., Computer Science (8.8/10) — *September 2013 - July 2017*
  - **Courses:** Data Mining, Data Compression, Programming Languages, Software architecture, Databases, Parallelism, Project Management, Web architecture, Android, NoSQL databases, Reflective programming.

Experience

- **Project EPIC, University of Colorado Boulder** — *Research intern, February 2017 - present*
  - Analyzed 2000 tweets/minute of real time data by building Big Data pipeline using Spark, Kafka and Cassandra.
  - Developed as part of my B.S. thesis work on Big Data analytics and container orchestration system.
  - Deployed system prototype with Kubernetes using custom microservices written in Go and Python

- **inLab FIB** — *Web Development Intern, March 2015 - January 2017*
  - Built REST API for faculty data - Average usage of 25.000 daily accesses. (Django, Python)
  - Reduced Oracle SQL query response time by 1/3 using non-blocking updates and materialized views.
  - Designed and built professor input app for schedule generator. (Flask, Python)

- **con terra GmbH** — *Intern, Summer 2015*
  - Developed bike share routing app using OpenStreetMap open data and Citibikes API. (Javascript)

- **YMCA of Greater Indianapolis** — *Summer camp counselor, Summer 2013 & 2014 & 2016*
  - Supervised groups of approximately 12 campers in resident camp setting

Projects

- **gTweetMap, a tool for the Geolocation of social Movements** — *Spring 2013*
  - Built geolocated tweets tracker app to study social movements.

Leadership

- **HackUPC, Universitat Politècnica de Catalunya** — *Co-Director and organizer, November 2015 - present*
  - Co-directed Spain's biggest student hackathon with 500 attendees and a 20 people core team.
  - Directed web development team with 5 person team for 2 editions.

- **HackCU, University of Colorado Boulder** — *Co-Director and Web development, February 2017 - present*
  - Co-directed Colorado's biggest student hackathon with 600 attendees and a 15 people core team.

Awards

- Balsells Fellowship. (2017, two years of funding for graduate studies)
- Balsells Mobility program. (2017, five months of funding for research)
- Finalist project at OxfordHack 2016. (2016)
- Nine distinction awards during B.S. (2013-2017, awarded to 5% top students per class)
- 52North Innovation Incentive Award for gTweetMap. (2013)

Skills

- **Programming:** Java, Python **Experience with:** Go, C++, Ruby, Ruby on Rails, Javascript, Android, Django, Flask, SQL, HTML, CSS, Git, Scrum, Haskell, Smalltalk, Spark, Kafka, Kubernetes, Scala
- **Native:** Catalan, Spanish **Advanced:** English
- **Hobbies:** Photography, Roller hockey, Travel, Amateur Illusionist, Reading books, Piano, Swim,
- **Hackathon participation:** OxfordHack, BrumHack 4.0, MHacks 9, HackJunction, T9Hacks