

## Gerard Casas Saez

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### Education

- **University of Colorado Boulder** Boulder, CO  
*M.S., Computer Science* *August 2017 - 2019 (expected)*
- **Universitat Politècnica de Catalunya** Barcelona, Spain  
*B.S., Computer Science (8.7/10 average grade)* *September 2013 - July 2017*
  - **Courses:** Data Mining, Data Compression, Programming Languages, Software architecture, Databases, Parallelism, Project Management, Web architecture, Android, NoSQL databases, Reflective programming.

### Related 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 built microservices in Go and Python
- **inLab FIB** *Web Development Intern, March 2015 - January 2017*
  - Increased faculty API usage to 25.000 daily accesses by building a REST interface. (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 a group 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** *Tech and event operations, February 2017 - present*

### Awards

- Bellsells Fellowship. (2017, two years of funding for graduate studies)
- Bellsells 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