

Education

- **Colorado University** Boulder, CO
M.S., Computer Science *August 2017 - present*
- **Universitat Politècnica de Catalunya** Barcelona, Spain
B.S., Computer Science *September 2013 - July 2017*
 - **Courses:** Data Mining, Data Compression, Programming Languages, Software architecture, Databases, Parallelism, Project Management, Web architecture, Android, NoSQL databases, Reflective programming.

Research experience

- **Project EPIC, Colorado University** *Research intern, February 2017 - present*
 - Developed infrastructure to collect and analyze Twitter data in real time with an average of 2000 tweets/minute
 - Written *Big Data Analytics in Container Orchestrated Systems* as my B.S. thesis.
 - Designed and built prototype on Kubernetes, using Kafka, Spark and Cassandra components.

Work experience

- **inLab FIB** *Web Development Intern, March 2015 - January 2017*
 - Built new public faculty REST API. Average 25.000 daily accesses. <https://api.fib.upc.edu> (Django, Python)
 - Optimized query on Oracle DB from 1 s to 17 ms with non-blocking updates in materialized view.
 - Designed and built professor input app for schedule generator. (Flask, Python)
- **con terra GmbH** *Intern, Summer 2015*
 - Built bike share routing app with OpenStreetMap open data and Citibikes API (Javascript)

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*
 - Managed twenty people team for Fall 2016 with 510 attendees
 - Managed web development team for Winter 2017 and Fall 2017. Projects: backend, live and maps webpage.
- **HackCU, Colorado University** *Web development and Event Operations, February 2017 - present*

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, Hockey, Travel, Reading novels and books, Piano, Swim
- **Hackathon participation:** OxfordHack, BrumHack 4.0, MHacks 9, HackJunction, T9Hacks