

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) *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** *Tech 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, Roller hockey, Travel, Amateur Illusionist, Reading books, Piano, Swim,
- **Hackathon participation:** OxfordHack, BrumHack 4.0, MHacks 9, HackJunction, T9Hacks