Gerard Casas Saez

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Education

- **University of Colorado Boulder** — Boulder, CO
  M.S., Computer Science (GPA 4.00) — August 2017 - May 2019 (expected)
  - **Courses:** Analysis and Design of Algorithms, User Centered Design, Database Systems, Big Data Architecture, Machine Learning, Computational Genomics, Natural Language Processing.
- **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 Assistant, February 2017 - present*
  - Analyzed 2000 tweets/minute of real time data by building Big Data pipeline using Spark, Kafka and Cassandra.
  - Deployed system prototype with Kubernetes using custom microservices written in Go and Python.
- **Twitter** — *Software Engineering intern, May 2018 - August 2018*
  - Developed CLI to deploy Apache Airflow instances internally. (Python)
  - Helped reduce ML model training and deploy time by 1/4 developing ML Workflows. (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.
- **con terra GmbH** — *Intern, Summer 2015*
  - Developed bike share routing app using 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

- **HackCU, University of Colorado Boulder** — *Tech director, February 2017 - present*
  - Co-directed Colorado's biggest student hackathon with 600 attendees and a 15 people core team.
- **HackUPC, Universitat Politècnica de Catalunya** — *Co-Director, November 2015 - September 2018*
  - Co-directed Spain's biggest student hackathon with 500 attendees and a 20 people core team.

Awards

- **Denver Government award winner at ETHDenver.** (2018)
- **Grant winner at MD5 Physical Cyber Hackathon.** (2018)
- **Balsells Fellowship.** (2017-2019, two years of funding for graduate studies)
- **Balsells Mobility program.** (2017, five months of funding for research)
- **Nine distinction awards during B.S.** (2013-2017, awarded to 5% top students per class)
- **52North Innovation Incentive Award:** Awarded for gTweetMap, my high school final research project. (2013)

Publications

- Jennings A., Gerard C., Kenneth M. A., Leysia P., and Rebecca M. **Incorporating Context and Location Into Social Media Analysis: A Scalable, Cloud-Based Approach for More Powerful Data Science.** *HICSS 52 (accepted).*

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.
- **Hackathon participation:** OxfordHack, BrumHack 4.0, MHacks 9, HackJunction, T9Hacks, ETHDenver.