

## Education

**Universitat Politècnica de Catalunya (UPC)** 2005 – 2011

Telecommunication engineering and Master of Science in Telecommunications

Engineering and Management

- Master Thesis: Benefits of batch provisioning in a PCE-based grid service interconnection network, Kungliga Tekniska Högskolan (KTH), Stockholm.
- With honors

## Languages

- English
- Native Spanish
- Native Catalan

## Experience

**Ocado Technology**

2018 – Present

**Staff Software Engineer.** Ecommerce, AWS, Java, Spring Framework, Python, Docker, PostgreSQL, Gitlab CI/CD

Barcelona, Spain

- Foster a culture of automated testing, observability, and collaboration.
- Develop multiple core e-commerce services: communications, receipts, marketing preferences, and SEO.
- Lead the department migration from NewRelic to the Prometheus/Grafana stack.
- Produce multiple internal support tools used widely in the company, both inside and outside the team.
- Introduce the usage of LocalStack: contribute to an internal open-source framework to support the usage of LocalStack by any employee of the company.
- Mentor new team members, lead Clean Code master classes, recruit and participate in feedback processes.

**Sensefields**

2017 – 2018

**Senior Software Engineer.** IoT, AWS, Python, Docker, Akka, MQTT, Terraform

Barcelona, Spain

- Redesigned and implemented the Traffic Analytics Platform: built a massively scalable IoT Python serverless solution deployed on AWS.
- Developed an IoT platform to enable our customers to implement a vehicle sharing service.
- Implemented a high-performance messaging middleware: its performance was based on an Akka cluster and the usage of the Actor model.

**Nicepeopleatwork**

2013 – 2017

**Software Engineer.** Multimedia, On-premise, Java, MySQL, Kafka, Druid, HazelCast, JS, Android, Roku, Streaming

Barcelona, Spain

- Developed a multi-model ETL process using MySQL, Apache Kafka, Druid, and custom-based solutions.
- Designed a custom data warehouse service to develop Business Intelligence algorithms.
- Performed customer in-house integrations in New York, Santa Clara, San Francisco, London, and Paris.

**Universitat Politecnica de Catalunya**

2008 – 2013

**Researcher.** IoT, Java, Python, Bluetooth, RFID, Multimedia

Castelldefels, Spain

- Developed an IoT backend designed to receive events from multiple medical devices.
- Built several mobile applications (Android, PhoneGap) to populate the platform with e-health information, such as medication timings.
- Gathered information from a connected gymnasium through RFID devices and Bluetooth interfaces deployed on a Raspberry Pi.
- Built a cross-platform streaming service using WebRTC and MJPEG compression technique.
- Developed an online transcoding system, high-performance streaming, and image processing.