

## Experience

### Ocado Technology

2018 – Present

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

Barcelona, Spain

- Fostered a culture of automated testing, observability and collaboration.
- Support and develop multiple core ecommerce services: communications, receipts, marketing preferences and SEO.
- Led the department migration from NewRelic to Prometheus/Grafana stack.
- Production of multiple internal support tools used widely in the company inside the team and outside.
- Introduce the usage of localstack: contribution to internal open source framework to support the usage of localstack by any employee of the company.
- Involvement in recruiting activities.

### Sensefields

2017 – 2018

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

Barcelona, Spain

- Redesign and implementation of the Traffic Analytics Platform: build a massively scalable IoT Python serverless solution deployed on AWS.
- Develop an IoT platform to let our customers implement a vehicle sharing service.
- Implementation of a high performance messaging middleware: its performance is based on a Akka cluster and the usage of the Actor model.

### Nicepeopleatwork

2013 – 2017

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

Barcelona, Spain

- Multi-model ETL Process: MySQL, Apache Kafka, Druid and custom based solutions.
- Design and implement a custom data warehouse service to develop Business Intelligence algorithms on top.
- Performed customer in-house integrations in New York, Santa Clara, San Francisco, London and Paris.

### Universitat Politècnica de Catalunya

2008 – 2013

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

Castelldefels, Spain

- Develop an IoT backend designed to receive events from multiple medical devices.
- Built several mobile applications (Android, PhoneGap) in order 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.
- Development of online transcoding system, high performance streaming and image processing.

## 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