

# Adrian Lopez Perez

## Professional Summary

Software Engineer, Hacker and problem solver with strong leadership skills and extensive experience in Functional Programming with Scala. Have shown exceptional aptitude developing Web based cloud applications, services and APIs on business critical environments including ticketing and B2B operations.

Key strengths include: creation of reliable systems that provide a high level of performance and stability, being able to work effectively on the whole stack of a Web application, strong interest in learning and passion to take on challenging tasks.

Even more importantly, I am a very self motivated individual who can work effectively within a team and has the tools to drive others to create better and simpler code, embrace Agile practices and deliver more value to the business.

## Key Technical Skills

Web Application Architecture  
Microservices and Serverless  
Library Design  
Scala - Java - C# - Javascript  
Akka - Akka cluster - Kafka

AWS - CI/CD  
Docker - ECS  
SQL - NoSQL - Blockchain  
Elasticsearch - MongoDB  
Http4s - AkkaHttp

Functional programming  
Tagless Final  
Monad Transformers  
ZIO - Cats & Cats Effects  
Haskell - Typescript - Idris

## Career History

**Team Lead and Engineering Manager at Artos limited**  
**2017**

**Since October**

- Responsible for the design of the Aventus platform microservices architecture as well as leading the team responsible for its implementation using functional Scala, AWS SQS and Kafka.
- Usage of a multitude of data stores depending on each service needs like DynamoDB, Elasticsearch, and Postgres as well as the Ethereum network.
- Work alongside the CTO and Product team to define functional and nonfunctional requirements.
- Collaborate on the design of some aspects of the smart contracts and their economics.
- Perform architectural reviews to identify possible flaws and non-functional requirements.
- Direct the company's CI/CD strategy and production infrastructure on AWS.

### Key achievements

- Helped on the creation of a focussed and productive team with a drive to learn and self improvement.
- Key role in the implementation of an eventually consistent CQRS microservice architecture able to leverage cloud infrastructure to scale automatically.
- Conducted various in-house training sessions on Scala, Akka and platform architecture.

- Received Best team player Award.

## **Team Lead at Adstream**

**January 2016 to October 2017**

- Responsible for the design and implementation of reactive business critical Scala and Akka applications on a service oriented environment, as well as the system's health and release plans.
- Lead on Agile ceremonies and responsible for implementing team practices and Agile processes to reduce overhead and increase the team's velocity and satisfaction.
- Liaise with stakeholders to define goals and deadlines.
- Heavily involved in the recruitment process for own and other teams.

### Key achievements

- Improved the project's release process by using continuous integration practices.
- Dramatically boosted the system's throughput by analysing computational complexity and removing bottlenecks.
- Key role in rising code quality, stability and test coverage.
- Greatly increased testability of the system by decoupling the multiple service layers.
- Promoted company culture by organising talks, encouraging conference and community event attendance.
- Taking responsibility for refactoring a sizable part of a large system.
- Received AStar Award.

## **Previous roles**

- |  |                                  |
|--|----------------------------------|
| - Lead Developer and Co-founder at GLW Solutions | October 2014 to January 2016     |
| - Lead Developer at Clubtickets Limited          | November 2010 to September 2014  |
| - Java Web Developer at UC3M LaBDA               | September 2008 to September 2010 |
| - Java and Web Developer at iSOCO                | September 2007 to September 2008 |

## **Education**

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|--|------|
| - Certified Kanban Foundation by Kanban University               | 2020 |
| - Lightbend Akka for Scala - Expert                              | 2018 |
| - Parallel programming by Coursera                               | 2016 |
| - Functional Program Design in Scala by Coursera                 | 2016 |
| - Principles of Reactive Programming by Coursera                 | 2014 |
| - Functional Programming Principles in Scala by Coursera         | 2014 |
| - Degree in Computer Science by Universidad Carlos III de Madrid | 2010 |