

Gastón Maximiliano Tonietti

Contact

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Summary

I count with extensive experience designing, developing, deploying and maintaining backend services in a variety of technologies including Java, Scala and most recently Haskell.

I pay special attention to quality, that's why I prefer to adopt Functional Programming principles and techniques when I define tech-stacks.

In addition to my technical background I have played leadership roles in several occasions throughout my career where I had, among other things, to define and implement engineering processes, train teams on new technologies and coach less experienced developers.

Top Skills

- Design large and distributed systems
- Functional programming
- Research and evaluate new technologies
- Train and mentor less experienced developers
- Define development processes with focus on quality; such as CI/CD, TDD and code review

Main Technologies

- Haskell, Servant, MTL, lens, amazonka, cabal
- Scala, scalaz, zio, http4s, argonaut, doobie, sbt
- AWS, ECS, S3, RDS, SQS, CloudFormation
- PostgreSQL, Redis, Kafka, ElasticSearch, Cassandra, MongoDB
- Linux, Git, Nix, Docker

Experience

BrickX (Sydney, Australia)

- **Head Of Engineering** (February 2019 - Present)

On top of my responsibilities as Principal Engineer, my responsibilities as Head of Engineering are:

- To be aware of the status of all projects and report directly to the CEO of the company
- Manage scope, long term planning and identify risks in all the different sub-

systems of the platform

- Optimise engineering resources to accommodate high level requirements from the business
- Lead and supervise the day-to-day activities of the engineering team
- Manage and execute project plans to achieve delivery commitments
- Provide technical guidance and direction to team members
- Ensure the profound understanding of already in use and new technologies
- Define, implement and lead recruiting and mentoring processes
- Collaborate closely with senior engineers and business experts to keep the software systems scalable and flexible in order to react quickly to sudden strategy changes
- To be responsible for the correct functioning of the entire platform infrastructure and software

- **Principal Engineer** (May 2018 - February 2019)

As a principal engineer, my main responsibilities are:

- Set the technical direction for the on-line platform and the engineering team
- Design the high-level architecture of decentralized services and how they interact with each other
- Define the technical stack of each service based on pure functional programming libraries and practices
- Research new technologies to be always well informed about new tools which can benefit our systems
- Implement development processes and coach members of the team to assure quality standards

Ambiata (Sydney, Australia)

- **Senior Software Engineer** (January 2018 - April 2018)

I was part of the engineering team focused on design, implement and maintain a set of services and tools written in Haskell to provide a highly efficient data pipeline for ML.

Technologies: Haskell and several AWS services such as EC2, S3, EMR and DynamoDB.

Simple Machines (Sydney, Australia)

- **Senior Scala Developer** (October 2015 - December 2017)

Principal backend developer: Design, implement, deploy and maintain several services making use of Functional Programming techniques and tech-stack such as Scalaz, Doobie, Http4s, Circe. Devops with Ansible and AWS.

- **Principal Consultant at Telstra** (January 2017 - November 2017)

I was part of the team in charge to deliver a chatbots platform based on NLP external providers. The platform is used by different departments within the organisation such as marketing and customer support to define automated interactive conversations with existing and potential customers.

Technologies: Scala, Akka, IBM Watson

- **Principal Consultant at Commonwealth Bank** (January 2016 - November 2016)

I was part of the Omnia Project, centralized Analytics Platform which provides

Machine Learning services for Decisioning to different departments of the bank.

Technologies: Scala, Hadoop, Spark

Atlassian (Sydney, Australia)

- **Senior Scala Developer** (February 2015 - August 2015)

I was part of Engineering Services, the team working on moving Atlassian products to the Cloud (OnDemand SaaS Platform).

We made use of an efficient tech-stack strongly based on Functional Programming libraries and practices such as Scala, Scalaz, Event Sourcing, AWS, DynamoDB and Spray.io.

We also paid special attention to quality, the codebase is deeply tested using Specs2, ScalaCheck and Gatling.

Despegar.com (Buenos Aires, Argentina)

- **Software Architect - Flights Product** (January 2013 - January 2015)

Ensure quality, performance and scalability for all the projects in the Flights Product Ecosystem. Research, implement and help with the coaching and adoption of cutting-edge technologies.

- **Technical Leader** (May 2011 - January 2013)

I've led technically a team in the migration of a system from .Net to Java. I've also helped in the adoption of new processes and tools such as Kanban, Git, TestNG, among others.

TeraCode (Buenos Aires, Argentina)

- **Java Architect** (January 2008 - April 2011)

I was part of a team conformed by the most experienced developers in charge of evaluating and implementing new technologies, as well as defining new architectures and methodologies to be used in our products across the company.

Metodologies: XP, Model Driven Design, Test Driven Development, Model View Presenter, Transparent Persistence, Continuous Integration.

- **Technical Leader** (January 2007 - April 2011)

In charge of training and coaching developers. Also referent for many technologies within the whole company.

- **Project Leader** (July 2006 - April 2011)

I've led multiple teams of different sizes across many projects using different technologies. I was in charge of team tasks management, daily meetings with clients, releasing and deployments.

- **Java Developer** (July 2005 - April 2011)

I've worked as developer in several Java-based projects from the very beginning of the company.

Advansix (Buenos Aires, Argentina)

- **Web Developer** (June 2003 - July 2005)

Development of many Dynamic-Content Web-Sites using a variety of programming languages such as ASP, PHP and Java, for different overseas customers.

Other Experience

Meetup Organiser

- **2013 - 2015:** Scala User Group Argentina ([SUGAR](#))

Significant OSS Contributions

Merged Pull Requests [here](#)

- **2018:** ZIO
- **2018:** Scalaz
- **2013:** Akka
- **2011:** Db4o

Education

Universidad Nacional de La Matanza

- **1999 - 2003:** Informatics Engineering (unfinished)

EET N° 8 de Haedo

- **1993 - 1998:** Electronics Technician in Telecommunications