Lic. Matías Basilico



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Career Summary
Matías Basilico has 20 years of experience in software development, he went from developing stand alone systems, client / server systems and web applications later.
In the web applications field he has 14 years of experience (from 2003 to 2017) during which he used different frameworks: Struts, Spring, Hibernate, JSF, JBoss Seam and databases: AdabasD, PostgreSQL, SQL Server, Oracle, MySQL, MongoDB, Apache Kafka, AVRO, etc.

Besides this development career he had 5 years experience in leading two development teams in bringing good products and services to life.

Summary of Qualifications
Skills:

Software	Python	HTML	ce
Analysis	JMS	JavaScript	MVC
Databases:	Lucene	Spring,	SVN, GIT
Relational,	PHP	Hibernate	OrientDB
NoSQL,	Smalltalk	XML/XSLT	Kafka
Graph	CMS's:	API REST	AVRO
Java	Drupal,	WebServi	Zookeeper
Scala	OpenCMS		Spark

Languages
Spanish (native speaker) English (Upper Intermediate)

Career History

Digitas (https://www.digitas.com) *Sept. 2019 – Present*
Role: Senior Data Engineer / BackEnd Developer

Work Description – Phase 1: Big Data Developer
I am in the Data transformation Team. As a Data Engineer we modify, create and maintain Spark Jobs and Data Pipelines that runs in Amazon AWS services. The data handled by this Jobs is really huge (In the order of multiple terabytes).
We do a lot of transformations, joins and calculations with the Dataframe and Dataset API for Apache Spark.
We investigate production issues with Datadog and AWS console researching the logs.

Work Description – Phase 2: API Rest Developer
I built a Scala API REST Microservice to handle the full lifecycle of a request. I used here Finagle (For HTTP Request Handling, High Performance Twitter Library), JsonSchema for modeling the input output of the general jobs, Quill a mapping layer between scala and the databse.

Technologies and Tools used:
Scala, Apache Spark, AWS CloudFormation, AWS DataPipelines, AWS EMR clusters, AWS Kinesis, AWS Lambda functions, Jenkins, Ansible, ElasticSearch, DynamoDB, Airfllow, Python3, Finagle, Quill, JsonSchema.

uBiome (http://www.ubiome.com) *Nov. 2017 – Jul. 2019*
Role: Data Engineer / BackEnd Developer

Work Description:
I am in the Data Engineer Team that is responsible for the data processing pipelines.
We have daily meetings and discuss the JIRA tickets each of the member has.
We build tools to support other teams in consuming status information about the pipeline and also we are in charge of refactor and improve the whole software stack.

Technologies and Tools used:
Python, Flask, Multiprocessing, NumPy, Pandas, Apache Spark, Docker, Apache Zeppelin, PySpark, Amazon S3, Amazon WebServices, MySQL, PostgreSQL, Microservices, REST API.

Point72 (https://www.point72.com) *Jan. 2017 – Oct. 2017*
Role: Scala BackEnd Developer

Work Description:
Matías worked as a Service Provider in a team that builds micro-services that consume messages from Apache Kafka, transform them with some logic and output them in other Kafka topics.

The rate of the incoming messages is high due to the business of asset trades in USA and Hong Kong.

He made lot of research and evaluations of messaging tools such as: Kafka Schema Registry, HortonWorks Schema Registry, AVRO vs Other serialization frameworks.

We had a strong agile development process with daily meetings, planning, retrospectives and he also helped in the definition of the future stories for incoming sprints.

In these days our team is working in the migrations of some input data to OrientDB (Graph database) and applying Kerberos security to the Kafka cluster.

Technologies and Tools used:
BigData: Apache AVRO, Apache Kafka, Zookeeper, HortonWorks Schema Registry, Confluent Schema Registry.
Database: OrientDB.
Spring REST, Spring Boot.
Build and Deploy: Maven, Bamboo, OpenShift
Methodology: Scrum, Agile with Chapter meetings also.

Globant (http://www.globant.com) *Jun. 2015 – Jun. 2017*

Role: Senior Java Developer

Work Description – Phase 1:
Matías was a Java Software Designer Developer of one team in the e-commerce Disney platform that sells tickets, lodging and so on.
We had a strong agile process with code reviews from many architects and developers, unit test with coverage requirements, integration tests and many environments to take care of.

Work Description – Phase 2:
From January/2016 to present Matías moved to the sustainment group that helps to fix bugs in production environment, attending call conference and live site issues. Also he had to do some passive support week (this implies to carry a phone and always be ready If there is some problem in production environment).

Technologies and Tools used:
Spring REST Microservices
SOAP Web Services (Apache Axis)
Hibernate
CouchBase
Methodology: Scrum, Agile, Strong Review Process

Economy Office of Buenos Aires Province *Oct. 2016 – Dec. 2017*
Role: Software Architecture Consultant

Work Description:
Matías is working as a software architecture consultant for a migration from Client/server account, budget, payment system that track the taxes for all citizens at the township level to the last web technologies.
We will deploy to 124 townships at the end of the project (end 2017).
Matías is responsible for defining the new architectures guidelines and monitoring the agile process.

Technologies and Tools used:
FrontEnd: Angular2
BackEnd: PHP Lumen REST Microservice Framework.
Build and Deploy: Gulp, Angular CLI, Artisan
Database: Oracle, PostgreSQL
Methodology: Scrum Agile with Scrum of Scrums.

Contaduria General BA, La Plata, Argentina
Role: Java Software Architect *Mar. 2007 – Mar. 2009*

Work Description:
Matías implemented general and cross software components that can be reused in different System Modules.
Matías designed and built an audit module attached to Hibernate listening object changes and store those changes in other table schema.

Technologies and Tools used:
BackEnd: Spring, Struts2, JSP.
FrontEnd: XHTML, JavaScript, jquery
Hibernate
Build: Maven, Ant.
Database: Oracle

Role: Java Software Architect Leader *Mar. 2009 – Jun. 2015*

Work Description:

Evaluate and Test Frameworks and choose the correct one that fit the needs.
Architecture and Infrastructure coordination tasks.
Design and Implements and Engine to process heavy task in batch mode.
Matías helps to detect bottlenecks and memory leaks problems in production systems.
Matías led a team of 3 developers.
Matías helped building the infrastructure for building and deploying applications in an automatic way.

Technologies and Tools used:

BackEnd: JBoss Seam, JSF, RichFace.
FrontEnd: XHTML, JavaScript (jquery), Built in AJAX in RichFaces
Hibernate
Messaging: JMS
WebServices: SOAP, REST
Asyncrhonous processing: Quartz
FullText Search: Lucene, Hibernate Search in master/slave architecture.
Building and Deploy: Maven, Jenkins (CI)

Colaborativa.net, Rosario, Argentina
Role: Freelance Java Developer *Mar. 2004 – Mar. 2006*

Work Description:

Matías implemented a server that serves XML documents to a software client from Sony Latin-America.
Matías and a team of Developers of the Rosario city used OpenCMS to solve problems to clients in Holland.
For one project Matías was the Argentinean counterpart that talked and coordinated all the tasks with the Dutch counterpart

Technologies and Tools used:

XML / XSL
JavaScript
OpenCMS
Struts

Instituto Prevision Social, La Plata, Argentina Apr. 1999 – Mar. 2003
Role: Business Analyst and VisualBasic6 Developer

Work Description:

Computing Services: System that calculates the pension percentage and if a person can retire or not. Graphic Module to represent periods of time, overlaps and so on.
Resolutions: System that generate automatic formal reports. Automatic Backup of database and importing in other PCs (before the LAN era).
System for process transfer files in fixed and CSV format. Calculate, search and check structure of transfer files.

Technologies and Tools used:

VisualBasic6
Creation of DDL common components
Database: Access
Printer handling
Canvas and Drawing strategies

Role: Java Developer Jan. 2003 – Mar. 2007

Work Description:

RUPA: Web Application and Java WebStart client that process DBF files sending objects via Spring Remoting (RMI) to the server. Matías built the server part in order to receive the objects and process them and also the client part responsible for showing progress and sending the objects in packages. Matías also built a statistics module that execute in batch mode for large reports in the web application side. Web module to calculate the value of a person's job title, Matías used a lot of AJAX and JavaScript to take advantage of the client proccesing power (jquery library). Matías begun the step 1 of migration “Computing Services” to a Web module.

Technologies and Tools used:

BackEnd: Spring, Spring Remoting, Hibernate
FrontEnd: Java Swing
Deployment and Distribution: Java WebStart.
Jasper Reports
Database: AdabasD, SQL Server.
FrontEnd: JQuery, AJAX.

Freelance / Entrepreneur

- **Baabler:** http://www.baabler.com
  Role: Entrepreneur, Team Leader.

  Work Description:
  Baabler is a platform to listen the web, Matías launched this project in *May 2016* to help blind people and knowledge workers to take advantage of their idle time, listen to interesting articles.

  Matías was the leader of this team and also he had to search for investment in order to pay to developers and designers.

  Matías was responsible for the development of the BackEnd, plugins and some modification in the Android App.

  Technologies and Tools used:

  BackEnd: NodeJS, Spring Boot, Spring REST
  FrontEnd: AngularJS, Firefox and Google Chrome plugins (HTML and JavaScript)
  Databases: MongoDB, FulleText Indexes
  - *Matías bas responsible for the sustainment and evolution of this database.*

  Mobile: Android (Java)

- **WaitResto:** Mobile App for Restaurants.
  Role: Team Leader and Java Developer.

  Work Description:
  In this project Matías was responsible to take care of the investment, the schedule and align the goals from the stakeholders and the entire development team.

  Matías also take part of the BackEnd development.

  Technologies and Tools used:
  BackEnd: Spring, Spring Boot, Spring REST, Spring Data. Hibernate, MemCache.
  FrontEnd: React, React Native
  Build and Deploy: Maven, Heroku.
  Mobile Platforms exported: Android, iOS.
  Database: PostgreSQL

Education

Universidad Nacional de La Plata, Facultad Informática, Argentina
(Jan. 1996 – Apr. 2015)
Licensee (Engineer), Computer Science (license number 663).
Awards: Joaquin V. Gonzalez - One of the 10th best scores in my year.

Ongoing: Universidad Nacional de La Plata, Facultad Informática, Argentina
(Apr. 2018 – Present)
Post-Degree in Data Intelligence in Big Data Environments