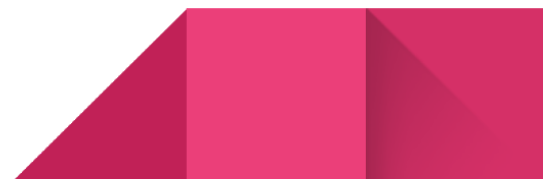


Alejandro Bernal Collazos



Interests

Software Engineering

DevOps

Web Development

Internet Of Things

Continuous Deployment

Contact Information

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Email alejandro@alejandro.bio

Birth date September the 16th of 1986

Website <https://www.alejandro.bio>



Professional Experience

DevOps

June 2019 --> Current time



Position DevOps

Company IncludIT

Client Naranja

Project DevOps Team

Activities

Infrastructure

- Work with **Jira** to track the requirements, new features and bugs
- **Design** service and application **infrastructure**
- Manages **pipeline** with **Gitlab** to deploy app/service into production
- Configures the monitor tools with **DataDog**
- Configure the **kubernetes clusters** for these environments
 - Develop
 - Staging
 - Production
- Create bash **scripts** to automate processes like backups, cleaning and notification

Continuous Integration / Delivery / Deployment with Jenkins

- Implement **GitLab** to orchestrate these process
 - **Continuous Integration**
 - **Continuous Delivery**
 - **Continuous Deployment**
- Work side by side with development teams in order to standardize and create **pipeline as code** with **Python** for their componentes using **Docker**
 - FrontEnd
 - Backend
 - Database
- Setup, configure and maintain **Docker Registry** to store the images from the Continuous Delivery process
- Setup, configure and maintain **Kubernetes Clusters** for these environments
 - Development
 - Staging
 - Production

Support

- Help the development with
 - How to perform deployments into production
 - How to request for development environments
 - Coach and teach about the architecture of the infrastructure
 - Development environments
 - Production environments

Teacher

January 2019 --> Current time

ASYS

Position **Entrepreneur**
Company **ASYS**
Client **Santex - IncludT**



Project Courses on DevOps

Activities

Teaching DevOps Culture

- What DevOps is and where does it comes from
- How to make a frontEnd with HTML, CSS and JS from scratch
- How to make an api with NodeJS from scratch using express
- How to work with mysql databases
- How to setup a linux environment
- How to setup infraStructure with Terraform in AWS
- What is docker and how to create docker images/containers for the api made in NodeJS
- How to setup a docker registry
- What is kubernetes and how to create a cluster with 3 nodes (1 master and 2 slaves)
- What is Jenkins and pipeline as a code
- How to create a pipeline in Jenkins
- How to setup ELK
- How to configure the telemetry for
 - Application
 - Infrastructure
 - Business
- How to use chaos toolkit to inject failures in the system on purpose

DevOps

June 2017 --> December 2018

santex



Position Site Reliability Engineer (DevOps)

Company Santex

Client **Grenzebach**

Activities

Infrastructure

- Work with **Jira** to track the requirements, new features and bugs
- **Design** service and application **infrastructure**
- Defines infrastructure within **Ansible** files
- Manages **pipeline** with **Jenkins** to deploy app/service into production
- Configures the monitor tools with Elasticsearch Logstash and Kibana (ELK) for **Monitoring**
- Configure the **kubernetes clusters** for these environments
 - Develop
 - Staging
 - Production
- Create bash **scripts** to automate processes like backups, cleaning and notification

Continuous Integration / Delivery / Deployment with Jenkins

- Implement **Jenkins** to orchestrate these process
 - **Continuous Integration**
 - **Continuous Delivery**
 - **Continuous Deployment**
- Work side by side with development teams in order to standardize and create **pipeline as code** with **Groovy** for their componentes using **Docker**
 - FrontEnd
 - Backend
 - Database
- Setup, configure and maintain **Docker Registry** to store the images from the Continuous Delivery process
- Setup, configure and maintain **Kubernetes Clusters** for these environments
 - Development
 - Staging
 - Production

Support

- Help the development with

- How to perform deployments into production
- How to request for development environments
- Coach and teach about the architecture of the infrastructure
 - Development environments
 - Production environments

DevOps

February 2017 -> June 2017



Position **DevOps**

Company **Incluit**

Client **McAfee**

Activities

Infrastructure

- **Design** service and application infrastructure
- Defines infrastructure within **Terraform** files
- Manages **pipeline** with **TeamCity** to deploy app/service into production
- Configure testing phases in the pipeline
- Configures the monitor tools with Elasticsearch Logstash and Kibana (ELK) for **Monitoring**
- Implements **Continuous Integration, Continuous Delivery and Deployment** in the pipeline
- Configure the **kubernetes clusters** for these environments
 - Develop
 - Staging
 - Production
- Manage **AWS**
 - Manage
 - Elastic Kubernetes Services

- Elastic Container Registry

Support

- Support for the development team with the implementation of the pipeline
- **Troubleshoot** development environment issues

Developer

June 2016 -> February 2017



Position **Developer within a DevOps Culture**

Client **AppDirect.com**

Activities

Development

- Create new features made with **Spring**, like new services, and integrations with payment gateways.
- Create new features made with **Wicket** (an apache java Framework to develop web applications) like new windows that handle new processes and perform actions on the server side.
- Make **unit tests** for every part of the code that were modified.
- Make **automated tests** for every new feature with **Selenium**.
- Use **GitHub** and **Jenkins** in order to build the new code and integrate it into the master branch to be delivered into production.
- Use **Maven** to manage package dependencies, run the legacy application locally.
- Use **Docker** to run the legacy application within a container, to avoid modification in the local machine.

- Use **AWS machine instances EC2** in order to perform automated tests before delivering a new feature into production.
- Use **JPA** in order to persist data against the DB.
- Perform code review for modifications made by my colleges.

Bug Fix

- Troubleshoot and solve issues with the legacy application (monolith), based on **Wicket, Spring, JavaScript** using **MySQL** database.
- Make unit tests for any change in order to cover such changes.
- Make automated tests for any new change in the existent application that impact the user interface such as the business logic

DevOps

February 2014 -> June 2016



Position **Developer and later System Administrator within a DevOps culture**

Client **LATAM.com**

Activities

Development

- Support and Maintain the legacy website based on **Perl**
- Create backend services based on **Java** with the Spring Boot framework
- Create and setup **Docker** for the backend services
- Work with **Git** to perform version control and **Git Flow** as the branching model

- Work with **Jira** for work tracking
- Work with **Scrum** as the Agile practice to create new feature within the development team
- Work with **Artifactory** to manage legacy backend services based on Spring
- Work with **Splunk** for **Monitoring** to perform log aggregation and notifications

Automation - Configuration / Setup and Maintenance

- **Scripting** Create and maintain scripts (made in **Bash** and **Python** mainly) to make Deployments (of **java** artifacts from archives into the **tomcat** servers of a given machine)
- Use **SVN** and **GIT** to version control **Chef** cookbooks
- Request machines to the cloud provider **Softlayer** through a self service layer that developers can use by their own
- Create, configure and maintain **Linux** user accounts (**CentOS** for development and **RedHat** for production)
- Create, configure and maintain **Linux** machines (CentOS for development and RedHat for production environments)
- Install and Configure servers (**Apache** http, dns, ldap ,Haproxy, Tomcat)
- Configure Linux **Firewalls**
- Configure Linux **Tunnels**
- Setup **Cron** rules to execute jobs on given schedules and automatically
- Configure Apache HTTP server
 - Setup reverse proxy rules
 - Setup virtual hosts
- Create, Maintain and configure **MySQL DB cluster**
- Configure **Haproxy** server
 - In order to perform load Balance
 - To promote service discovery
- Configure **Chef**
 - Create and Maintain Cookbooks
- Configure **Rundeck Server**
 - Define Jobs to be executed on given machines, like restart a given set of machines defined by a role
- Setup and maintain **Nagios Server** for Infrastructure **Monitoring**
 - To perform monitoring in the development environments and production environments
- Version Control Server **SVN**
 - Administration

Bug Fix and diagnosis



- Troubleshoot and solve issues on
 - Infrastructure
 - Application
 - Deployment
 - Java Web Services
 - JavaScript applications

Support

- Help the development teams in this tasks
 - How to perform deployments into production
 - How to request for development environments
 - Coach and teach about the architecture of the infrastructure
 - Development environments
 - Production environments

User Accounts

- Configure LDAP servers in order to
 - Create - Modify and Delete
 - Groups
 - Users
 - Domains
 - Attributes

Developer

February 2012 -> February 2014



American Airlines 

The American Airlines logo, featuring the text 'American Airlines' in a sans-serif font followed by a stylized eagle head icon.

Position **Developer**
Client **AA.com American Airlines**
Activities

Development

- **Java** create web services based on spring that could interact via SOAP with clients and providers of information
- **Logging** we used Log4j in order to perform the logs of our web services
- **Unit Testing** with JUnit for the unit tests
 - Test for functions in the code
- **SonarQube** usage for static code analysis
 - Coverage of 80% or greater
 - Duplicated code
 - Syntax checks
- **Branching Model** we used a flavor of gitflow based on feature branches in order to implement the continuous integration process
- **Continuous Integration** using the branching model we established a set of steps to guarantee that the code (whether on feature branches, pull requests or new merges into the develop branch) works according to our functional policy
 - Code is able to build
 - All unit tests passed
 - The amount of coverage is within the established parameters ($\geq 80\%$)
 - The static code analysis passed properly
 - Check for code duplication
 - Cyclomatic complexity
 - Syntax check
- **Systems Development Life Cycle** The requirements for new improvements or bug fixes came from tickets and according to their priority, some of them were done as hotfixes or some of them worked out using **Agile/Scrum** within a sprint of 2 weeks period and later delivered to **Artifactory** --- using the **semantic versioning** --- as packages,, for a provider (Verizon) in charge of the deployment in a production environment
- **Software Configuration Management** Although we did not have full control over the management of the services in production we had
 - A tool to check which specific version is installed in production and in which server

- Within the release process we documented on the release notes which changes or tickets were included in a particular version in order to keep track of them
- **Regression Testing** with SOAP UI against the services layer, in order to avoid new changes to break existing functionality

Support

- **Maintain** the web services already created as well as the new ones, this implies update the wsdl or service contract in order to match the new feature in the service layer
- **Talk and coordinate** with Development teams based in Dallas issues or usage of our web services
- **Talk and coordinate** with QA team based in India the testing phases on each one of the services

Formal Education

National Technical University

January 2008 – January 2009

City Capital Federal, Buenos Aires. Argentina

Title “Systems Engineering”

Status **Not Finished**

Certification

Oracle Certified Professional, Java SE 6 Programmer

January 2012



Linux Foundation Certified SysAdmin

May 2017



AWS Certified Cloud Practitioner **September 2019**



Alejandro Bernal

has successfully completed the AWS Certification requirements and has achieved their:

AWS Certified Cloud Practitioner

Issue Date
Sep 08, 2019

Expiration Date
Sep 08, 2022

A handwritten signature in black ink, appearing to read "Maureen Lonergan".

Maureen Lonergan
Director, Training and Certification

Validation Number H55GXTD2G2R4Q8GE
Validate at: <http://aws.amazon.com/verification>

Languages

English

Advanced

Writing and Speaking

Portuguese

Intermediate Writing and Speaking

Spanish

Mother Language Advanced Writing and Speaking

Technical Skills

Programming and Scripting languages

- Java
- SQL
- Php
- Bash
- Perl
- Python
- JavaScript

Operative Systems

- Linux
 - Ubuntu
 - Fedora
 - CentOS
 - Debian
- Windows
- Mac OS

Content Management Systems

- Drupal

Databases

- MySQL



- PostgreSQL

Web Servers and Web Application Servers

- Apache
- Tomcat
- Nginx

Configuration Management Tools

- Ansible
- Chef

Virtualization Technologies

- Docker

Continuous Integration Servers

- Jenkins
- TeamCity

Containers Orchestrators

- Kubernetes

Cloud Services for Infrastructure as a Service IaaS

- AWS
 - Route53
 - API Gateway
 - Elastic Kubernetes Service
 - EC2
 - Elastic Load Balancer
 - Auto Scaling Groups
 - Network Load Balancers
 - Cloud Formations



Courses

Portuguese	[CEPE : Center] March 2013 - January 2015
JAVA Enterprise Edition 5	[UTN Córdoba] July 2012 - January 2013
UML y UP : Design and Analysis	[Educacion IT] September 2011 - January 2011
Java Hibernate	[Educacion IT] September 2011 - January 2011
Java Web	[Educacion IT] September 2011 - January 2011
Java Programming	[Educacion IT] September 2011 - January 2011
PHP Programmer	[Educacion IT] September 2011 - January 2011
Linux System Administrator	[Educacion IT] September 2011 - January 2011