Felipe ESPINOZA

PERSONAL DATA

FIRST NAME: Felipe Alejandro
LAST NAME: Espinoza Rosales
EMAIL: cv@espinoza.dev
PERSONAL SITE: fdns.github.io
RIGHT TO WORK: United Kingdom

WORK EXPERIENCE

JAN 2019 Present

Senior Software Engineer, Online Education, Universidad de Chile.

- Containerize with **Docker** an **Open edX** (Open source learning platform) instance installed in a single virtual machine, distributing it in multiple servers to handle ten times the current users.
- Setup monitoring with Prometheus, Grafana and Alertmanager for metrics, Elasticsearch, Logstash and Graylog for logs.
- Migrate the application to a **Kubernetes** cluster, setting up CI/CD with **Github Actions** and **ArgoCD** to deploy new changes automatically, while using **Terraform** and **Ansible** to configure new instances locally and in **AWS** Cloud.
- Develop new integrations and analytics processing for the platform using Python (Django framework), mentoring new developers that joined our team to expand the capabilities of the platform.
- Manage a team of software engineers to scale and add new features to our Open edX platform.

Jul 2017 Jan 2019	Researcher at NIC Chile Research Lab. Research in highly scalable DNS monitoring systems and the AnyCast networks of NIC Chile.
DIC 2016	Developer at Vigigo SpA.
ABR 2017	Design and implement integration between different database systems and SAP for CODELCO.
JAN 2016	Developer at Google Inc.
	Design and implement projects to improve Google Deployment Manager.
DEC 2014	Developer, Project Leader at Penta Analytics S.A.
FEB 2015	Design and implement the extraction process in an ETL system.
JUL 2014	Programming teacher at University of Chile

Conferences

JUL 2018 | IETF 102 Montreal.

Speaker: Monitoring DNS with open-source solutions.

MAR 2018 | SREcon18 Americas Conference.

OCT 2014 | C teacher, class of 20 students aged 15 to 18.

Speaker: Monitoring DNS with Open-Source Solutions.

EDUCATION

2018 | Master in Computing Science, University of Chile, Santiago, Chile

2019 Maximum distinction. Thesis: Geographical and Topological Analysis on Routes and Server Selection of DNS Anycast Clouds.

2012 | Computing Engineering, University of Chile, Santiago, Chile

2018 Maximum distinction. Thesis: Real time monitoring of DNS using open source solutions.

CERTIFICATION

FEB 2021 | CKAD: Certified Kubernetes Application Developer, The Linux Founda-

tion

Certificate ID: LF-0pcjovkn4a

MAR 2021 | CKA: Certified Kubernetes Administrator, The Linux Foundation

Certificate ID: LF-pt10ndf5sw

LANGUAGES

SPANISH: Mothertongue

ENGLISH: Fluent

PROGRAMMING KNOWLEDGE

Intermediate: PYTHON, RUST, Go, SQL, JAVA

Basic: BASH, HTML, JAVASCRIPT, CSS, C++

SOFTWARE AND PLATFORM KNOWLEDGE

Orchestration: Kubernetes, Nomad.

Containers: Docker, containerd, Docker Compose.

Version Control: Git, SVN. Operating Systems: Linux.

CI/CD: Argo CD, Concourse, Ansible, Terraform.

Databases: MySQL, SQLite, Postgres, ClickHouse, ElasticSearch.

Monitoring: Graylog, Prometheus, Grafana.

Cloud Platforms: AWS, GCP.