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 ABR 2017 — *Developer at Vigigo SpA.*

Design and implement integration between different database systems and SAP for CODELCO.

JAN 2016 APR 2016 — *Developer at Google Inc.*

Design and implement projects to improve Google Deployment Manager.

DEC 2014 FEB 2015 — *Developer, Project Leader at Penta Analytics S.A.*

Design and implement the extraction process in an ETL system.

JUL 2014 OCT 2014 — Programming teacher at University of Chile

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

CONFERENCES

JUL 2018 — *IETF 102 Montreal.*

Speaker: *Monitoring DNS with open-source solutions.*

MAR 2018 — *SREcon18 Americas Conference.*

Speaker: *Monitoring DNS with Open-Source Solutions.*

Education

2018 2019	**Master in Computing Science**, University of Chile, Santiago, Chile Maximum distinction. Thesis: Geographical and Topological Analysis on Routes and Server Selection of DNS Anycast Clouds.
2012 2018	**Computing Engineering**, University of Chile, Santiago, Chile Maximum distinction. Thesis: Real time monitoring of DNS using open source solutions.

Certification

Feb 2021	**CKAD: Certified Kubernetes Application Developer**, The Linux Foundation 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.