

Felipe ESPINOZA

PERSONAL DATA

NAME: Felipe Espinoza
EMAIL: cv@fespinoza.net
PERSONAL SITE: fespinoza.net
RIGHT TO WORK: United Kingdom

WORK EXPERIENCE

JAN 2019 PRESENT	<i>Senior Software Engineer, Online Education, Universidad de Chile.</i> <ul style="list-style-type: none">• 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	<i>Researcher at NIC Chile Research Lab.</i> Research in highly scalable DNS monitoring systems and the AnyCast networks of NIC Chile.
DIC 2016 ABR 2017	<i>Developer at Vigigo SpA.</i> Design and implement integration between different database systems and SAP for CODELCO.
JAN 2016 APR 2016	<i>Developer at Google Inc.</i> Design and implement projects to improve Google Deployment Manager.
DEC 2014 FEB 2015	<i>Developer, Project Leader at Penta Analytics S.A.</i> 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	<i>IETF 102 Montreal.</i> Speaker: <i>Monitoring DNS with open-source solutions.</i>
MAR 2018	<i>SREcon18 Americas Conference.</i> Speaker: <i>Monitoring DNS with Open-Source Solutions.</i>

EDUCATION

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| 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

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| FEB 2021 | | CKAD: Certified Kubernetes Application Developer , The Linux Foundation |
| | | Certificate ID: LF-opcjovkn4a |
| 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.