Lucas **Contreras**

Security Engineer · at N26

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No solutions just trade-offs

Tech skills

Discussing problems and their possible workarounds is what I enjoy the most. Even more if done with people equally passionate. Always learning and trying to teach when possible. I enjoy working in **Linux** environments and have familiarity with cloud infrastructure, mostly with **AWS** and **GCP**, where most of the interaction is done either through **SDKs** or IAC tools like **Terrafom**. My experience includes working with technologies like **ECS** and **Docker**, but my eyes are currently more into **Kubernetes** and **Podman**. Throughout my career, I developed in different languages, including C, PHP, and NodeJS. However, in recent years, I have channeled the majority of my efforts into **Golang** and **Python**. This shift has concurrently piqued my interest in diverse **Software Architecture** paradigms, including (but not limited to) **DDD** or **Clean Architecture** among others.

Work Experience

Okta

Barcelona, Spain

Cloud Security Engineer

Apr. 2024 - Present

- Supporting the team in hardening and securiing our platform to the highest industry standards.

N26

Barcelona, Spain

Cloud Security Engeneering IV

Apr. 2023 - Apr 2024

- Worked on the design and implementation of our in-house vulnerability management tool using software architecture principles. Tenable, Django, Postgress and Jira.
- Continue to support SOC team by developing solutions around their SIEM to enrich logs, and enhanced performace of our log collection time.

Cloud Security Engeneering III

Oct. 2021 - Apr. 2023

- Developed ad-hoc solution to enhance and ship logs into Google's SIEM Chronicle
- Lead the migration of N26's SIEM system based on the ELK stack to AWS managed services like ECS and Opensearch, resulting in a significant reduction in maintenance. Simultaneously, established application metrics such as SLA, SLI, and SLO, and implemented supplementary monitoring systems alongside self-remediation strategies and automations. Which reduced friction with our stakeholders and drastically improved our MTTR.
- Developed Philips, a system which keeps track of IP ownership across teams, services, and AWS resources along with corresponding timeframes, a tool used to help subsequent forensic analyses. For this tool I used Python, DynamoDB and MSK (Kafka). Aspect as unit testing, and a mindful approach towards the system's extensibility was taken into account during it's development, embracing elements from Domain Driven Design and Plugin Architecture.

Mercadolibre

Argentina

Sr. Cloud Security Engeneering

Jul. 2021 - Oct. 2021

- Within a group of two people we built POLP Fiction, a tool that aims to apply the principle of least privilege on AWS IAM Customer managed Policies, Users and Roles. The project managed to reduced the attack surface on more than 200 AWS identifying and mitigating security concerns such as privilege escalation, confused deputy problem and least privilege. We made the Policy inventory open source https://github.com/mercadolibre/polp-fiction-metrics

Ssr. Cloud Security Engeneering

Nov. 2019 - Jul. 2021

- In partnership with another engineer, I participated in Mercadolibre's Patch Management solution, A project that using Lambda, AWS Config, and Systems Manager handles the patching of +50k EC2 and compute instances on AWS and GCP respectively across around +5 different Linux distributions.
- As one of my biggest duties in the patch management initiative, I created a tool that leverages on Google's IAP (GCP Identity Aware Proxy) and Ansible to install the AWS SSM agent on any GCP instance, making the patching solution multi-cloud and centrally managed.

Edrans

Argentina - USA

Site Reliability Engineer

Jun. 2018 - Nov. 2019

Worked as a contractor mainly for e-commerces Zappos and OLX in which I:

- Developed a full Serverless incident response tool with 3 fully composable and reusable Microservices/APIs using Python and NodeJS in AWS. Tooling which was later on used by Zappos Incident response team.
- Solved several IaC issues with Terraform and CloudFormation in AWS and automate a handful of procedures using Docker, Lambda and more native AWS services
- Deploy containerized monitoring stacks such as as Nagios, TIG (Telegraf, InfluxDB, and Grafana)

Toyota S.A

Argentina

Security Officer

Dec. 2016 - Dec. 2017

- As part of my internship at Toyota, I administered Active Directory, MySQL and Windows Servers as well as massive software installation procedures with InvGate software.
- For the most part I learned a lot about The Toyota way, TPS, Toyotas Kaizen circle for continuous improvement and several fascinating data driven methodologies that Toyota's applies to achieve outstanding results.

Personal projects

Codelamp

Argentina

Freelance Developer *Sep. 2013, Sep. 2019*

A personal project which started with some University colleagues, where we dealt with most aspects of software development, from writing a functional brief to designing, coding, selling and maintaining a solution, where I worked as:

- Fullstack developper of a CMS application from scratch that merges all of the activities performed in AntiplagaNorte into a single app, generating useful data and dealing with a complicated domain logic. For this project I used PHP, Laravel and MySQL.
- Backend developer for a logistic platform that tracks real time GPS data of trucks using PHP and Fatfree framework.
- Sysadmin for open source implementations like Wordpres, Opencart, etc. both on AWS and On-prem.

DNS TCP/UDP *contre95/dns-tls-proxy*

A DNS proxy with on external dependecies that listens UDP/TCP traffic and redirect the request to a DNS over TLS resolver.

Controtto *contre95/controtto*

Self-hosted, Portfolio tracker for Forex, Crypto and Stocks

Expenses tracker *contre95/expenses-app*

Been keeping track of my expenses with my own tooling for more than 2 years now.

More + *github.com/contre95*

I have some more project private which I would love to discuss !