

Mauricio Vásquez Bernal

Software Engineer



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mauriciovasquezbernal.github.io



Medellín - Colombia

Hard Skills

eBPF and XDP
C
Go
Kubernetes
Linux Containers
OpenTelemetry
Git
C++
Python
Rust

Languages

Spanish (Native)
English
Italian

Profile

Mauricio is a software engineer with several years of experience in observability and networking solutions. He has experience leading teams and developing solutions into complex systems. He has mainly worked on open source technologies and has contributed to several projects like Inspektor Gadget, Kubernetes, runc, Linux kernel, OpenTelemetry, BPF Compiler Collection (BCC), Open vSwitch (OVS), Data Plane Development Kit (DPDK) and others. He is a proactive team member, very motivated and enthusiast about new life challenges. Mauricio also has a long record of public speaking in conferences like KubeCon, Open Source Summit, eBPF summit, Cloud Native Rejekts, etc. His main interests are cloud computing, observability, networking and security.

Experience

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|---------------------|---|---------------------------------|
| Jun 2021 – Present | Principal Software Engineer | Microsoft |
| | <ul style="list-style-type: none">• Leading the development of Inspektor Gadget.• Integrating Inspektor Gadget inside internal Azure systems.• Speaking at different technical conferences. | |
| Jul 2019 – May 2021 | Software Engineer | Kinvolk (Acquired by Microsoft) |
| | <ul style="list-style-type: none">• Contributing to OpenTelemetry, a distributed tracing framework.• Contributing to Inspektor Gadget, a debugging tool for Kubernetes.• Contributing to Lokomotive, the Kinvolk's Kubernetes distribution. | |
| Feb 2016 – Jul 2019 | Research Assistant | Polytechnic University of Turin |
| | <ul style="list-style-type: none">• Developing of Polycube, an open source framework to build fast and lightweight virtual network functions with eBPF.• Contributing to open source projects like Linux kernel and BCC. | |
| Feb 2017 – May 2017 | Consultant | Nebbiolo Technologies |
| | <ul style="list-style-type: none">• Implementing high performant virtual network functions with eBPF. | |
| Sep 2016 – Jan 2017 | Consultant | Plumgrid (Acquired by VMware) |
| | <ul style="list-style-type: none">• Developing iovisor-ovn, an eBPF datapath for OVN. | |
| Jan 2016 – Aug 2016 | Research Assistant | Polytechnic University of Turin |
| | <ul style="list-style-type: none">• Developing of a high-performance communication channel for inter-VM communication in Open vSwitch.• Contributing to open source projects like OvS and DPDK. | |

Projects

Inspektor Gadget github.com/kinvolk/inspektor-gadget
Inspektor Gadget is a collection of tools (or gadgets) to debug and inspect Kubernetes resources and applications. It manages the packaging, deployment and execution of eBPF programs in a Kubernetes cluster.

OpenTelemetry opentelemetry.io
OpenTelemetry is an observability framework for cloud-native software. Mauricio made several contributions to the Python implementation.

Polycube github.com/polycube-network/polycube
Polycube is an open source framework for developing fast and lightweight network functions using eBPF and XDP.

Public Speaking

Mauricio has given talks at different conferences like KubeCon, PyConUS, DevConf.CZ, Open Source Summit EU, etc. Check <https://mauriciovasquezbernal.github.io/> to get the full list of all talks he has given.

Education

2013 – 2015	Master in Computer Engineering	Polytechnic University of Turin
2009 – 2013	Bachelor in Electronic Engineering	University of Antioquia

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