

JOÃO VILAÇA


Software Engineer

1998-06-30 ◇ Braga, Portugal

machadovilaca@gmail.com

Find me as *machadovilaca* on all Social Media: [in](#) [G](#) [V](#)


WORK EXPERIENCE

Software Engineer, Red Hat  2021 - Present

Working in the [KubeVirt](#) project, a tool for managing virtualization workloads on Kubernetes. I'm mainly contributing to [Hyperconverged Cluster Operator](#), a unified Kubernetes operator for deploying and controlling several adjacent operators.

DevOps Engineer, Public Mint  2019 - 2021

Kubernetes orchestration, logging, monitoring and tracing. AWS infrastructure management and automation with Terraform and Ansible. CI/CD with GitLab

2 DevOps Summer Internships, Eurotux Informática  2017 and 2018

Open Source contributions for OPNsense Firewall, Nginx and Nginx Cache Purge Module. Go service for access in development environments to Docker containers via SSH running in any EC2 machine on a given ECS service

EDUCATION

Student Researcher, AIDA - INESC TEC  2020 - 2022

Design and implementation of new scheduling frameworks for Edge Computing that accounts for both the available resources and the geographical location of nodes when orchestrating workloads in Kubernetes/KubeEdge

Integrated Master Degree in Software Engineering, University of Minho  2016 - 2022

Graduate Coursework: Distributed Systems, Fault Tolerance, Large Scale Systems, Semantic Interoperability, Knowledge Discovery, Data Analysis, IT Systems Security

PUBLICATIONS

Geolocate: A geolocation-aware scheduling system for Edge Computing 2021

Vilaça J, Paulo J, Vilaça R. Geolocate: A geolocation-aware scheduling system for Edge Computing. Workshop on High-Performance and Reliable Big Data (HPBD), colocated with SRDS. Available [here](#).

STRENGTHS

Languages and Technologies Go, Java, Python, Ruby (Rails), Haskell, Elixir (Phoenix), Kubernetes, Openshift, AWS, Docker, Terraform, Ansible, CI/CD, ELK, Prometheus

Personal Critical and Logical Thinking, Self-criticism, Leadership, Communication, Perseverance, Writing Experience

VOLUNTEER EXPERIENCE

CeSIUM - University of Minho Computer Engineering Students Center

2020/2021 - Vice-President

2019/2020 - Treasurer

2018/2019 - Secretary (board of administration)

2017/2018 - Department of Communication Co-director

ENEI - Portuguese National Meeting of Computer Science Students

2019/2021 - Treasurer