

# JOÃO VILAÇA

Software Engineer





1998-06-30 ♦ Braga, Portugal

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## WORK EXPERIENCE

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- Software Engineer**, Red Hat  2021 - Present  
Openshift Virtualization team. Developing open-source Kubernetes Operators in Go for the [KubeVirt](#) project
- 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
- Software Engineer**, Imprensa Nacional - Casa da Moeda  2018 - 2019  
Development of Digital Security Solutions (e-Gov and e-ID products) with focus on authentication, proof of identity and secure transactions
- 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

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- Student Researcher**, AIDA - INESC TEC  2020 - Present  
Design and implementation of new scheduling frameworks for Edge Computing that accounted for both the available computational resources and the geographical location of nodes when orchestrating workloads in Kubernetes/KubeEdge
- Integrated Master Degree in Software Engineering**, University of Minho  2016 - Present  
*Graduate Coursework:* Distributed Systems, Fault Tolerance, Large Scale Systems, Semantic Interoperability, Knowledge Discovery, Data Analysis, IT Systems Security

## PUBLICATIONS

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- Geolocate: A geolocation-aware scheduling system for Edge Computing** 2021  
Workshop on High-Performance and Reliable Big Data 2021  
*Keywords:* scheduling, edge computing, containers, kubernetes, kubeedge

## STRENGTHS

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- Languages and Technologies** Go, Java, Python, Kubernetes, AWS, Docker, Terraform, Ansible, CI/CD tools, ELK Stack, Git
- Personal** Critical and Logical Thinking, Self-criticism, Leadership, Communication, Perseverance, Writing Experience

## VOLUNTEER EXPERIENCE

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### 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