Rafael Ribeiro

Cloud Engineer

Passionate software engineer with 7 years of working experience. I have worked on a wide range of technologies, from frontend to backend, from full stack to microservices. I have a strong background and preference in Cloud Native technologies and Infrastructure. I love the open source communities and contributed to several projects.I also love to hack my homelab and provision bare metal Kubernetes clusters using mixed architecture single board computers. I love the thrill of a new challenge.

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WORK EXPERIENCE

Software Engineer
Neoception, GmbH

08/2019 - Present   *Mannheim, Germany (Remote)*
Industrial IoT

Achievements/Tasks
- Implement Infrastructure as Code practices
- Implement Cloud Native technologies with GitOps principles
- Product Development
- Proof of concept IOTA cryptocurrency projects
- Transition the company from outdated workflows into cloud native workflows
- White-Hat Security and penetration testing
- Responsible for the Azure Cloud infrastructure
- Internal tooling development

Software Engineer
Estamos Juntos, LDA

09/2016 - 08/2019   *Cascais, Portugal (Remote)*
Consulting for the Energy Sector

Achievements/Tasks
- Full-stack and mobile development
- Breaking monoliths into microservices
- Database administration
- Team leader and customer facing
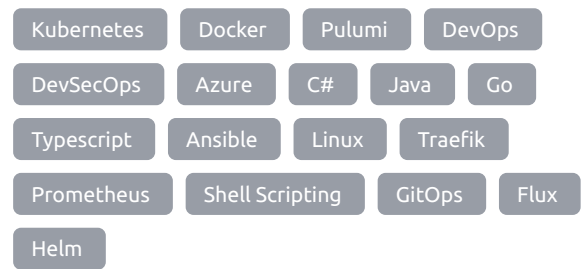
PERSONAL PROJECTS

Helium DIY Organization (12/2021 - Present)
Creator and core maintainer of the Helium DIY Ansible playbooks to provision hotspots for the Helium Blockchain project

Kubernetes at Home / Homelab (09/2020 - Present)
Provision of Kubernetes on bare-metal clusters in my Homelab as a training ground for professional applications.

SKILLS

Kubernetes · Docker · Pulumi · DevOps · DevSecOps · Azure · C# · Java · Go · Typescript · Ansible · Linux · Traefik · Prometheus · Shell Scripting · GitOps · Flux · Helm

PROJECTS

Floww and Streamm (01/2020 - Present)
- Infrastructure as code implementation with Pulumi
- Implementation of GitOps practices to deliver software using FluxCD in Kubernetes
- Setting up CI/CD pipelines and development environments
- Choosing and managing the observability stack, networking and security on the Kubernetes / Cloud Native ecosystem

Wilsen LoRaWAN / BLE Sensor (05/2020 - 10/2021)
- Transition from ClickOps into Infrastructure as Code / GitOps practices
- Setting up CI/CD toolchains for firmware development
- On premises bare metal Kubernetes proof of concept for customer showcasing
- Setting up Chirpstack LoRaWAN Server and edge devices monitoring with custom tooling

Digital Kanban - Bosch (10/2019 - 12/2022)
- Industrial production line automation project for the Industry 4.0
- Created a firmware updater tool via serial interface

Industry Marketplace (08/2019 - 10/2019)
- Proof of concept showcase for the 7th ECLASS Congress 2019 in Cologne in a consortium effort between IOTA, Neoception, Otto von Guericke University Magdeburg, Helmut Schmidt University and other entities.
- NodeJS, Zero MQ, Distributed Identifiers using the IOTA Distributed Ledger Technology, the Tangle.

YES Energy (09/2016 - 08/2019)
- Design & Software Architecture
- Full stack Development with Microsoft tech stack
- Microsoft Azure and Azure DevOps
- Team Leading and customer responsible

EDUCATION

MSc in Information and Technologies Systems for the Organizations
Instituto Politécnico de Viseu
2015 - 2017   *Viseu*

Bachelor in Computer Science
Instituto Politécnico de Viseu
2011 - 2015   *Viseu*