# Rui **Teixeira**

SOFTWARE ENGINEER · FULL-STACK DEVELOPER

*Porto, Portugal*

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*"Gladiator in harena capit consilium."*

## Education

### Faculdade de Engenharia da Universidade do Porto
*Porto, Portugal*

MASTER IN INFORMATICS AND COMPUTING ENGINEERING
*2003 - 2011*

- Founding member of NIaefeup
- AI researcher for LIACC - Won [AI] RoboCup - Mixed Reality League 2007
- Worked as Researcher in INEGI Porto integrating mathematical models developed in Maple and C with a PHP HTML web interface for modeling adhesive joints.
- Published NeatSqueak on wheels: Neural networks applied to movement optimization
- Masters' Dissertation: Constructing Taxonomies from Portuguese News Articles Topic Distillation

## Skills

| | |
|---|---|
| **Software Engineering** | Clean Architectures, Cloud Based Systems, Concurrent Programming |
| **DevOps** | Gitlab/CI, Docker, *nix, Shell-Script, Percy.io, Vagrant, Ansible, Terraform |
| **Back-end** | gevent, Gin, Django, REST API |
| **Front-end** | ReactJs, Typescript, MaterialUI, Hugo, HTML5, CSS3 |
| **Programming** | Python, Go, Node.js, Vim, C, JAVA, LaTeX |
| **Languages** | Portuguese, English |

## Experience

### Aeler Technologies Sa
*UPTEC, Porto, Portugal (Remote)*

SENIOR FULL-STACK CONSULTANT
*Dec. 2019 - Present*

- Building cutting-edge cloud based logistic solutions for the container shipping industry.
- Was responsible for: Developing features and Designing architectures as part of Cloud Software Team.
- Provisioned and Managed on-premise development and production environments utilizing gitlab, docker, linux servers and AWS environments.
- Built fully automated CI/CD pipelines on GitLab-CI for containerized applications using Docker.
- Designed versatille distribute architectures that could scale with project demands and client requirements.
- Implemented TypeScript+NodeJs fullstack applications.
- Explored Kubernetes based API-Gateway software solutions for the whole software production stack: Design, Deploy, Maintenance/Monitoring

### Digital Microscopy Applications - IPATIMUP
*I3S, Porto, Portugal*

SOFTWARE TEAM LEAD
*Nov. 2017 - Dec. 2019*

- Building a suite of real-time collaborative tools and services, developing a digital microscopy and information systems platform, to aid in the diagnosis of Oncologic Pathologies.
- Was responsible for: a team of 6 developers; designing features and architecture; approving specifications and code.
- Provisioned and Managed on-premise development and production environments utilizing gitlab, docker, and several linux servers.
- Built fully automated CI/CD pipelines on GitLab-CI for containerized applications using Docker.
- Designed several client-server architecture applications and pipelines around Digital Microscopy Services.
- Implemented ReactJS+TypeScript applications alongside with Go and Python backends.
- Deployed a centralized monitoring environment (NetData, Prometheus, Grafana) which gather system metrics as well as docker run-time metrics.

### Opsview
*Reading, England*

PYTHON DEVELOPER
*Sep. 2015 - Feb. 2017*

- Building a high-concurrency, distributed server monitoring engine.
- Implemented Python components in messaged based, fully scalable, architecture.
- Built Vagrant+Ansible pipeline to provision virtual machines for the development teams.
- Migrated specifications and business logic from the previous codebase (perl) to Python.
- Was responsible for code-reviewing junior cowokers Python code and for helping them transitions skills from Perl to Python.

### BEEVERYCREATIVE - 3D Printing
*Aveiro, Portugal*

Software Team Lead
*Jun. 2013 - Jul. 2015*

- Was promoted to department lead retaining all previous tasks/responsibilities.
- Was responsible for: a team of 3 developers and several contractors; designing features and architecture; approving specifications and code.
- Was responsible for writting job specifications and interviewing applicants for the software team.
- Was responsible for coordinating releases with marketing and product development.

### BEEVERYCREATIVE - 3D Printing
*Aveiro, Portugal*

Software Engineer
*May. 2012 - May. 2013*

- Developed open-source java based 3D printing applications.
- Developed open-source 3D printing firmware.
- Built a hardware&software testing aparatus for QA small scalle 3Dprinter manufacture.
- Developed methodology and software testing tools for mechanics and design teams.
- Worked on product design, product development, and QA processes.

## Projects

### Criteria Marathon Lda
*Porto, Portugal*

Co-Founder, Software Engineer
*Nov. 2017 - Present*

- Business Manager
- Gained expertise in public tendering for the Portuguese medical IT sector.
- Develped products with a focus on digital microscopy technology.

### Wasptech Lda
*Porto, Portugal*

Co-Founder, Software Engineer
*Mar. 2018 - PRESENT*

- Business Manager
- Gained expertise in open-source Unmanned Aerial Vehicle architectures and framewoks.
- Developed long-range winged drone prototype.

## Presentation

### Web Summit 2019
*Lisbon, Portugal*

Presenter for Criteria Marathon: A new way to interact with Digital Slides
*Nov 2019*

- Introduced my company (Criteria Marathon) to investors and clients and pitched our solution in Whole-Slide Imaging

### porto.codes Meetup Group
*Porto, Portugal*

Presenter for porto.codes : Back from the Future of Computing.
*Jul. 2019*

- Introduced the Future of Competing Summer School to the porto.codes community.
- Talked about my experience attending the FoC2019 and past experiences with the Data Science Portugal Community.

### Make or Break 2017
*Porto, Portugal*

Presenter for Make or Break: Introduction to 3D Printing and Parametric Design.
*Sep. 2017*

- Introduction to the essentials of 3D printing and parametric design.
- Conducted a workshop on 3D design and printed some samples.

### porto.codes Meetup Group
*Porto, Portugal*

Presenter for porto.codes : Concurrent Python made (near) painless using gevent.
*Jul. 2017*

- Introduced principle of concurrency in the python language.
- Performed a live-coding session demonstrating python co-routine techniques using gevent.