BRUNO ROQUE

Software Engineer

INFO

Zürich, Switzerland

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TECHNOLOGIES

Dotnet

PostgreSQL (TimescaleDB)

Azure (Pulumi)

Python

Node.js

Angular (Material, XState)

Docker

ReactiveX

Svelte (Bulma, XState)

LANGUAGES

Portuguese - Native

English - Proficient

German - Intermediate

EXPERIENCE

Software Engineer

06.2019 – Present | Raccoon Works, Zürich, Switzerland

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Software Developer

11.2017 – 05.2019 | Spoud AG, Bern, Switzerland

Development of a real-time transport layer using Reactive Streams (RxJava), gRPC (Protocol Buffers), Apache Kafka. Development of a REST API (including Server Side Events) using Spring Web/WebFlux, Reactor, JPA, OpenAPI.

Software Engineer

04.2017 – 08.2017 | Vodafone, Glasgow, Scotland

Development of a desktop application to automate the planning of neighbors in cellular networks. Improved the drop call rate of northern areas of the UK by more than 30%.

Software Engineer R&D

10.2015 – 03.2017 | Celfinet, Lisbon, Portugal

Research of geolocation algorithms for mobile and IoT networks using radio frequency propagation models. Improved the geolocation error of ~278 meter to less than 131 meter. Use of genetic algorithms to calibrate the models.

Software Engineer R&D

01.2015 – 09.2015 | Instituto Telecomunicações, Lisbon, Portugal

Software development of video processing algorithms: detection of black frames, black margins, flashes, block effect, removal of subtitles and inpaint.

EDUCATION

MSc Electrical and Computer Engineering

09.2007 – 12.2014 | Instituto Superior Técnico, Lisbon, Portugal

PROFESSIONAL DEVELOPMENT

Present | Genetic Algorithm, Blockchain, Decision Tree Player and other side projects on GitHub.

05.2021 | Architect Master Class, Juval Löwy, IDesign.

03.2020 | Project Design Master Class, Juval Löwy, IDesign.

11.2017 | Front-End Web Developer Nanodegree, Udacity.

04.2017 | Machine Learning, Stanford University, Coursera.