

## Gustavo Rocha da Silva

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### EXPERIENCE

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#### **Tech Lead & Software Engineer** | Replai | Porto, Portugal | Apr 2020 – No 2023

- Co-developed an MVP for Replai's video intelligence platform as one of two engineers within a two-week timeframe. Played an ongoing role in refining and expanding the product to its current state.
- Showcased versatility across diverse roles, including frontend, backend, devops, using a tech stack that comprises Postgres, React, Typescript, Node.js and AWS. Briefly stepped into business development, initiating direct outreach to potential customers.
- Contributed to securing two funding rounds totaling \$6M, assisted in initial product development, team assembly, and training, while managing significant parts of the product.
- Engaged actively in product discussions and requirement analysis, assisting in key decision-making processes.
- As Tech Lead, managed the hiring and training processes of 6 direct reports, fostering a team environment that emphasized consistent delivery of high-quality software and encouraged knowledge sharing.

#### **Software Engineer** | Feedzai | Porto, Portugal | Aug 2018 – Apr 2020

- Adapted the company's product to meet client needs, facilitating customer success.
- Main activities: Java development, requirements discussion, technical design, technical leadership and DevOps.

#### **Software Engineering Intern** | Bosch Car Multimedia | Braga, Portugal | Feb 2018 – Jul 2018

- Worked on my master's thesis under the topic "Thermal imaging for vehicle occupant monitoring".
- Published article "Face Detection in Thermal Images with YOLOv3" in ISVC 2019.

#### **Teaching Assistant** | Faculty of Engineering of the University of Porto | Porto, Portugal | 2016 - 2017

- Helped teach multiple courses: Programming; Graphical Applications Laboratory; Computer Graphics.

### EDUCATION

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#### **Faculty of Engineering of the University of Porto** | Porto, Portugal | Sep 2013 - Jul 2018

BSc (3 years) + MSc (2 years) in Informatics and Computing Engineering

Final grade: 18 out of 20

#### **Facultat d'Informàtica de Barcelona** | Barcelona, Spain | Sep 2017 - Jan 2018

Erasmus+ exchange programme. Topics studied: Deep Learning; Concurrency and Parallelism; Virtual and Augmented Reality; Intelligent Data Analysis Applications in Business; Constraint Processing and Programming.

### SKILLS

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- Technical tools:
  - Databases: PostgreSQL, Oracle Database, Cassandra, MySQL, PostGIS
  - Languages: Typescript, Java, C/C++, Python, HTML, CSS, JavaScript
  - Others: Node.js, React, AWS, Docker, Ansible, RabbitMQ, Maven
- Cambridge Certificate in Advanced English (Level C1).
- Completed a course on Machine Learning by Stanford University on Coursera.
- Certified ScrumMaster® (Sep 2018 - Sep 2020).
- Oracle Certified Professional, Java SE 8 Programmer.

### EXTRACURRICULAR

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- Held the role of CEO in a simulated company with real clients, managing a multidisciplinary team of 40 students, as part of a course named "Project Management Laboratory" – [www.musaic.ml](http://www.musaic.ml)
- Scrum master of the team behind a website and mobile app for a non-profit organization – [www.cuidadores.pt](http://www.cuidadores.pt)
- Competed in the EBEC Challenge, BEST SciTech (2nd place), Porto Summer of Code, Google HashCode (306th place – 4th best of Portugal) and Make or Break 2018 (1st place).
- Security researcher as a hobby, with some of my discoveries documented in my blog – [gustavosilva.me/blog](http://gustavosilva.me/blog)
- Lectured a C++ workshop (Oct 2016), a Python workshop (Feb 2017) and a session on Security (Nov 2018).
- Presented technical details of security vulnerability CVE-2018-13342 at an 0xOPOSEC meetup and SINF'2019.