Curriculum Vitae

👤 Biodata

Ricardo Jorge de Araújo Ferreira

Informatics and computing engineer (M.Sc.)
Electrical and computer Science engineer (M. Sc.)

January 19, 1985

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👤 Summary

I started my career as an electrical engineer, specializing in automation and power control systems. However, I soon discovered my passion for software development. I began creating small programs to streamline my daily tasks, including web and local applications for data analysis, file manipulation, database integration, and more.

With a foundation in computer science, I transitioned into software development roles within various companies. To deepen my understanding of software development, teams, and products, I pursued a master's degree in informatics and computing engineering.

Throughout my career, I have gained experience with a diverse range of technologies and stacks. Notably, I contributed to building a custom order processing system in Java at Jumia ("The African Amazon"), worked at Paddy Power, Betfair, and Fanduel on a high-volume betting platform using Java and Scala, incorporating technologies like Docker, Kafka, Akka, Cassandra, MySQL, AWS, Ansible, among others. I fully embraced the DevOps culture within software development, a practice I continue to uphold and share with colleagues.

More recently, I have been involved in an AI-based company, developing an innovative document processing software in Python using the Django framework. Beginning as an individual contributor focused on integrating ML models and processing training data, I moved to an engineering management role. Currently, I lead a team of six developers and two QA engineers while still engaging in programming tasks when possible.

Additionally, I oversee the support on-call program within the company, constantly expanding my knowledge in areas like data analysis and optimization. This continuous learning process shapes my role as a manager and technologist in a dynamic and evolving industry.

💼 Work Experience

- **Engineering Manager** — **Jun 2023 - Present**
  Hyperscience, Ltd — New York, USA (Remote)

  - Hands-on leader of a team with 6 developers and 2 QA engineers;

  - Leading an agile team responsible for integrating new ML models and training data management tools;

  - Discoveries and leveraging technical requirements for new features;

  - Responsible for the management and implementation of the oncall engineering support team;

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- **Software Engineer** — **Aug 2021 - Jun 2023**
  Hyperscience, Ltd — New York, USA (Remote)

  - Designing abstractions, APIs and tools to connect with Machine Learning modules;

  - Development of the intelligent document processing (IDP) tool, written in Python;

  - Making discoveries and leveraging technical requirements for new features;

  - Development and management of automation tests and integration pipelines;

- **Backend Developer** — **Dec 2019 - Aug 2021**
  Blip - Paddy Power Betfair & FanDuel - Flutter entertainment Plc — Porto, Portugal

  - Write well-designed, testable and efficient code in JAVA and Scala;

  - Deploy and maintain applications in continuous integration platform;

  - Execute full software development life cycle in a microservices architecture that processes 135M transactions every 24h;

  - Design and develop technical solutions or processes aligning requirements with stakeholders;

- **Web Engineer - Fullstack Developer** — **Feb 2018 - Dec 2019**
  Jumia - Porto Tech Center — Porto, Portugal

  - Development of software solutions using JAVA frameworks, Spring and Play;

  - Database managament and design, (Postgres and Mysql);

  - Technical Specification and development of business requirements and improvements;

  - Development of solutions with a strong concern about clean code and architecture;

  - Working in an environment with the DevOps culture;

- **Fullstack Developer** — **May 2014 - Feb 2018**
  Gravity Demand, Lda (E-Commerce) — Penafiel, Portugal

  - Development and integration of software solutions, client/sever programming (JAVA, PHP, Javascript, SQL, CSS, HTML5);

  - Integration with external services (REST and other API's);

  - Technical specification, design and architecture;

- Management and coordination between work teams (Marketing, Design, Sales, Development).

- **R&D Engineer**   Jan. 2012 - May. 2014
  INESC, Institute for Systems and Computer Engineering   Porto, Portugal

  - Research, testing and development of power converters for electric vehicles and power grids;

  - Design of analog and digital feedback control systems (Software and hardware);

  - Validate emerging concepts in Smart-Grids and Renewable Energy systems by developing electronic prototypes;

  - Development of software for validating concepts and make complex computations (C++ and JAVA).

- **Control and Automation Engineer, Junior manager**   Aug. 2008 - Jan. 2012
  Efacec, Sistemas de Engenharia, SA   Maia, Portugal

  - Development of control and automation architectures for the Portuguese electric power system (Distribution and Transport Substations - 15kW to 400kW);

  - Commissioning and development of factory and site acceptance tests for electric power systems;

  - Management and configuration of large IP based Networks and information systems based on UNIX platforms;

  - Management of engineering projects (Planning Schedules and coordinate activities).

- **FEUP Project**   FEUP, Porto
  Undergraduate Teaching Assistant   Sept. 2007 - Jan. 2008

  - Teach how to organize and develop an engineering project.

  - Led weekly course seminars.

🎓 Education

- **MsC in Informatics and computation engineering**   2020
  Faculdade de Engenharia da Universidade do Porto   Porto, Portugal

  - **Principal Subjects:**
    * Languages and Web Technologies; Computation Theory; Algorithms; Discreet Mathematics, Oriented Programming Languages, Operating Systems, Databases, Software Engineering, Formal tests in software, Software architectures, Data analysis, Machine Learning

  - **Thesis:** Recovery of software architectures using code repositories. (Classified with 17 out of 20)

- **MsC in Electrical and computers engineering**   2008
  Faculdade de Engenharia da Universidade do Porto   Porto, Portugal

  - **Major:** Automation and control systems

  - **Specialization:** Power and industrial electronics and instrumentation

  - **Thesis:** Solar car. (Classified with 17 out of 20)

💬 Languages

(Scale: 1 - Basic, 5 - Very Good)

Portuguese	5	(Mother Tongue)
Italian	5	(My Father is Italian)
English	4	(I work in a company where english is the main language.)
Spanish	3	

✳ Skills

- Programming and Markup Languages

    - **Expert:** JAVA, Scala, Python, CSS, HTML5, JSON, SQL, JavaScript, C/C++, LaTeX

    - **Intermediate:** Bash, PHP, XML

- Frameworks

    - **Expert:** Spring, Django

    - **Intermediate:** Play, Laravel, Zend, ReactJs

- Test and Debug

    - Junit, Jest, PHPunit, Xdebug, Cucumber, Gherkin

- Tools and Software

    - **Expert:** UNIX Shell, Docker, Akka, Apache Storm, Apache Cassandra, Prometheus, Grafana, MySQL/MariaDb, PostgreSQL, Apache 2, Magento, GIT, Jenkins

    - **Intermediate:** Couchbase, RabbitMQ, Nginx, Hazelcast, Memcached, Redis

- Operating Systems

    - Mac OS, Linux

- Social

    - People person, enjoys being challenged, hardworking, leadership, entrepreneurial, organized.