Gustavo Pedro Ricou

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Software Developer | Software Engineer | Full Stack Developer

Software developer (First class honours in Physics + First class honours in Computer Science) with 3 years of experience in front-end, back-end and database development, manipulation, and analysis. Currently completing a master's degree in software design while being a top performer in my current company.

CORE COMPETENCIES AND ACHIEVEMENTS

Core Programming Languages:

Developing applications recently in university, with an average grade above 90%. In the current master's degree, in a course equivalent to Oracle Certified Associate Java Programmer, also with a grade above 90%. Currently attending a course equivalent to the Oracle Certified Intermediate Java Professional Java Programmer. In addition, currently developing Microservices with Java Spring Boot for my master's degree final project. DOM manipulation analysis, with a quality above 98% and productivity above 100% + several projects in my portfolio, including a recent chrome extension built with Manifest V3. Also, I **JavaScript** Intermediate regularly extract data from websites for Stock Market analysis using the Chrome console. Example of small code for Etoro extraction here. Root Cause Analysis that improved overall quality from 80% to 95% + several physical systems simulations using numerical methods for differential equations, during BS and **Python** Advanced internships + current master's project on statistical analysis with a grade of 100%. Several dynamic websites designed for my Computing degree. **PHP Beginner**

Technological Skills:

HTML/CSS (Responsive Design, UX/UI)
Inde.js
Bootstrap
TypeScript (basic)

Proced (with Darkey and Heals)

React (with Redux and Hooks)

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Unix System Administration

Google Cloud

AWS

Maven

Express and Express middleware

RESTful architecture

 Relational and Non-Relational Databases (MongoDB, using Mongoose npm, PostgreSQL and SQL, using MySQL)

Docker

Kubernetes

Spring Framework

Eureka

NumPy

SciPyPostman

OODOOP

Microservices Security

(JWT/OAuth2)
• Jenkins

SonarQube

Karate

Ansible

- Analytical/Problem-Solving skills: Education focused on analytical and problem-solving skills (Physics and Computing).
 Extracted data with SQL and performed data analysis with Python and Excel, reaching conclusions that once presented to stakeholders improved quality from 80% to 95% over a 1–2-year period.
- Attention to detail: Reviewed and analysed thousands of web pages using DOM manipulation, with a quality above 98% and productivity above 100%.
- Teamwork/Communication: Responsible for the induction of new teammates on a new project, from an initial team of 10 to a team of 120, with 100% of new joiners having shadowed me, with quality above 97% for new joiners. Coordinating the hashtag project among team members in several locations decreased the leakage to below 3% and the number of false positives to below 5%.
- · Languages: English, Portuguese, French and Spanish.

PROFESSIONAL EXPERIENCE

Oct 2020 - Present - Sampling Quality Analyst

TikTok | Dublin, Ireland

- Data Sampling Extraction with SQL or ETL software.
- Perform Sampling Analysis (Root Cause Analysis) using Python or Excel.
- Write weekly reports with the central values, conclusions, and improvement suggestions.
- Check abnormal results in detail.
- Present those conclusions to the stakeholders in weekly meetings.

Sep 2019 - May 2020 - Community Operations Analyst

Covalen | Dublin, Ireland

- Data Sampling Extraction with client provided ETL software.
- Link potentially dangerous behaviour to specific triggers by analysing thousands of messages using Python and language knowledge.
- · Assess the risk of high-value client accounts.
- Present results to client representatives weekly.
- · Identify inefficiencies in workflows and suggest and work on solutions.

Feb 2019 - Aug 2019 - Content Analyst

Accenture | Krakow, Poland

- Verifying the safety and compliance of dozens of web pages daily by analysing their DOM structure, using JavaScript to trigger events.
- · Automating in-browser processes with JavaScript.
- Build chrome extensions that will incorporate the developed automation.
- Be shadowed and participate in the training/induction of new joiners.
- Identify inefficiencies in workflows and suggest and work on solutions.

Jun 2017 - Dec 2018 - Content Analyst

Arvato Finance | Krakow, Poland

- Verify the safety and compliance of dozens of web pages daily by analysing their DOM structure, using JavaScript to trigger events.
- Automate in-browser processes with JavaScript.
- Build chrome extensions that will incorporate the developed automation.
- Be shadowed and participate in the training/induction of new joiners.
- Identify inefficiencies in workflows and suggest and work on solutions.

EDUCATION

MSc in Software Design With Cloud Native Computing (Level 9), Technological University of the Shannon, Athlone – Sep 2022 - Present

With: Python; Java8 (OOD, OOP); Container Design and Deployment: AWS, Docker, Kubernetes; Microservices Architecture: Spring Framework (Spring Boot, Spring Data, Spring Cloud), Eureka, Hystrix, OAuth2, JWT; Continuous Build And Delivery: Pipelines, User Stories, git, Scrum, Maven, Jenkins, SonarQube, Spring Boot Unit Testing, Karate, Ansible.

Higher Diploma in Science of Computing (Level 8), Atlantic Technological University – Sep 2021 - Jun 2022 With: Unix System Administration, Google Cloud, Java8 App development (OOD, OOP), Database development and manipulation (SQL, using MySQL), Internet App development (UX/UI, HTML, CSS (Responsive Design) and PHP (dynamic webpages)), Product Management and Software Testing (ODM, Agile development, specifically SCRUM).

Full Stack Developer, Strive School - Apr 2020 - Oct 2020

With: node.js, HTML/CSS (Responsive Design, UX/UI), JavaScript ES10 (ECMAScript 2019), TypeScript, Bootstrap, ReactJS (with Redux and Hooks), AJAX, HTTP, Express and Express middleware to design API, RESTful architecture, Relational and Non-Relational databases (MongoDB, using Mongoose, and PostgreSQL), Cloud (focused on Microsoft Azure services), Agile Development (specifically SCRUM), Postman, Microservices Security (JWT/OAuth).

Postgraduate studies in Nuclear Fusion, University of Stuttgart and University of Lorraine – Sep 2013 - Sep 2015 With: Numerical Methods in Plasma Physics (numerical methods for differential equations in Python with NumPy and SciPy).

Bachelor's degree in physics, University of Porto - Sep 2008 - Sep 2013

With: Programming (Python), Simulation (MATLAB), Computational Physics (OOD, OOP, Python with NumPy and SciPy).