C# / Python Software Engineer

Junior or medior

About us

Yazzoom is a high-tech software company based in Ghent, Belgium. We provide AI-based software and R&D services for improving the company processes of our customers. In our projects, we often design algorithms and build custom software that is deployed into our customers IT landscape to help them automate, optimize or gain insights into their production processes or operations.

Next to projects where we build custom software solutions for our customers, we have created Yanomaly: an innovative and scalable software for anomaly detection and predictive analytics on machine generated data (https://www.machine-analytics.com). Yanomaly currently already monitors hundreds of industrial assets, and we are rapidly expanding the install base of the product.

Our team consists of smart and motivated high-tech professionals with various backgrounds and seniority levels. For the past 10 years we have delivered innovative solutions with a large added value to our customers. We are now ready for an accelerated expansion and internationalization and are looking for new colleagues that want to grow together with us.

About the job

We are looking for a junior/medior C# or Python software engineer to work with our data science and computer vision teams on our projects and together create software solutions that are robust, scalable and user-friendly, sometimes with a REST API, sometimes with a desktop user interface. You will work on various software development projects, often with aspects of data science and computer vision – each of which has its own characteristics and challenges. You won't be bored!

While you won't do any data science per se, you *will* learn about various ML / AI / data science libraries and work on a variety of applications. You will collaborate with and learn from the various team members working on data science and computer vision projects. You will learn new technologies and libraries and get the opportunity to introduce your own ideas about which libraries to use or how to best structure the software and development workflow. Finally, you will get the opportunity to look behind the scenes of our many industrial customers from various sectors, including petrochemical, paper and pulp, automotive, metallurgy and food-and-beverage.

Here's a selection of some projects where we've built software solutions for our customers:
- AI-based biometric signature verification for a mobile payment platform
- Automatic sorting of onions based on computer vision and AI
- Predictive modelling of prices and probability of having the highest bind on a second-hand car in an online car auction using AI
- Predictive modelling of failures in production processes using AI
- Vision-based detection of assembly mistakes in aluminum profiles

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- Optimizing and controlling in real-time the use of Combined Heat and Power (CHP) plants based on predictions of the evolution of electricity prices to help maintain the balance on the electric grid
- Recommending optimal production planning given the set of orders for the coming days and information about available machines and people
- Predicting how much additional power a power plant could produce in the current circumstances and recommending how to reach that optimum.

What will you do?

In this job, you will use and extend a broad set of software skills. You will typically team up with data science or computer vision colleagues and your daily job typically consists of:
- Build browser-based applications served by a .Net back-end with REST API
- Build attractive and user-friendly desktop user interfaces
- Combine existing open-source technologies into a single software
- Speed up algorithms and data pipelines and reduce their memory requirements
- Interface with various data sources (SQL, InfluxDB, REST APIs, …)

Who are you?

- You have a degree in software engineering or equivalent experience
- You are passionate about software development
- You always aim to build performant, robust, maintainable and readable code
- You are fluent in C#, Python or both
- You are eager to learn and experiment with new technologies, software libraries and frameworks and want to apply them to solving real-world problems. Experience with any of the following technologies is a big plus: relational databases (SQL), REST APIs, containerization (Docker), Graphical User Interfaces (WPF, Winforms, PyQT), web front-end (Javascript, HTML, CSS), command line tools and scripting (Powershell, bash)
- You speak and write English fluently. Speaking and writing Dutch fluently is a big plus.
- You are interested to understand the role of your software in the customer's business and can help translate the end user's requirements into a great piece of software
- You can have both technical discussions with your colleagues and talk to less technically inclined customers to help find out what they need
- A driver's license type B is a plus.

What do we offer?

- Yazzoom is an innovative high-tech software and engineering company that helps its customers to push the boundaries of what is possible in terms of data analysis, machine learning and optimization algorithms. With us, you enter a growing company active in the world of constant innovation.
- We provide the opportunity for training and, where appropriate, supervision by experienced senior colleagues. However, we expect you to hit the ground running and start coding from the first week.
- In this job, you will never get bored. This is a job with a lot of variety. We offer the opportunity to grow with the company if you want and fit the requirements.

- We promote communication and permanent learning in an informal, constructive, and no-nonsense corporate culture. Your colleagues are top notch and up to speed with the latest technological trends so you can learn with them and from them.
- No rigid organizational structures and decision-making processes, but direct access to the company management and flexible working hours.
- We give a lot of confidence to our employees and expect them to use it wisely. Therefore, we greatly appreciate taking initiative, passion for the work without neglecting the rest of your life, intelligence, teamwork and integrity.
- We work hard but we also take time to celebrate success and have fun.
- You will get to work in a winning team of smart professionals with diverse backgrounds (not only computer science) on a variety of challenging projects. Here are a few of the awards that our team has won over the past couple of years:

- Your motivation, initiative and dedication are rewarded with a competitive remuneration package, with extras such as a company car or free public transport, a wage bonus, contributions to your retirement fund, a large training budget and an attractive travel allowance.

Where are we located?

The main location and base for this job is our office in Sint-Denijs-Westrem near Ghent (or from home when this is required by the corona regulations, and optionally one day per week in normal times). About 10 minutes from the Sint-Pieters train station by tram or by bike, and a few minutes from the E40 motorway. Occasional travel to our customers is required. Usually half or one day visits, and occasionally several days in a row.

Call me now for more information or send your resume with a short motivation to:

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