
Back-end User Interface Development

Job Description

Mainblades Inspections is on a mission to change the way inspections are performed for large commercial aircraft. Our company develops data-driven technology, focused on automation of the complete inspection process: from autonomous drone flight, to damage detection and assessment of visual data, all the way to automated reporting. Our automated drone inspections for aircraft allows for a more rapid and effective inspection on any location, enabling our customers to *keep their aircraft off the ground*.

The inspection procedure is followed via a user interface showing: a live stream camera view, a map of the (un)inspected areas and damages found, data from drone sensors. This assignment will start with a focus on:

- Determine the requirements for the back-end implementation in terms of security, functionality and scalability.
- Research how the existing robot or robot middleware (Robot Operating System) can be interfaced with for a functional and realtime control and data collection of the drone.
- Design a back-end architecture for interfacing the UI with the drone.
- Develop a real-time interface between the drone and back-end of the UI.

You will work in our software engineering team which, is primarily focused on development of autonomous navigation using drones and image recognition using deep learning. Working at our company means working within a professional, dynamic and complex environment and as a team we are responsible for delivering a high-quality product.

Requirements

What you bring to the table

We are looking for a talented and enthusiastic student, preferably with a strong background in software development. Above all, we are looking for someone with a dedication for mastering new topics and a willingness to learn. The following experiences and skills will help you during the internship:

- Experience with back-end development (NodeJS).
- Experience with one or more programming language (C#, C++ or JavaScript).
- Experience with database design (SQL and JQuery).
- Knowledge of networking.
- Knowledge of UI front-end development.
- General knowledge of current best practices in terms of software development.
- Ability to think creatively about complex problems while maintaining a birds-eye view.
- Practical and can-do attitude.
- Creative problem solver and team player with strong conceptual skills.
- Self-motivated and dedicated to excellence.
- Good command of the English language (both spoken and written).
- Are a resident of the EU, or have a Dutch working permit and are willing to move to the Netherlands.

What we bring to the table

A comfortable and fun working environment:

- Unique chance to be part of a high-growth, successful start-up.
- You can have a real impact on our business.
- Good coffee! Alternative drinks also available.

We are looking for you when you like to be seriously challenged and when you easily adapt to change and enjoy some fun. We are always looking for new people who contribute with innovative ideas to our products and we have a shared responsibility to make our vision a reality.

Up for the challenge?

If you think you got what it takes, and you are up for the challenge, take the first step and apply now! If we're interested, we'll reach out and take you through our recruitment process.